ICF-CD863V

SERVICE MANUAL

US Model

Ver 1.1 2002.07

Model Name Using Similar Mechanism	CFD-E75
CD Mechanism Type	KSM-213RDP
Optical Pick-up Name	KSS-213R

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 3.2–ohm loads, both channels driven from 150 – 10 000 Hz; rated 0.8 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.
Woofer with 3.2–ohm loads, driven at 50 – 150 Hz; rated 3.2 W minimum RMS power, with no more 10 % total harmonic distortion in AC operation.

CD player section

System: Compact disc digital audio system
Laser diode properties: Material: GaAlAs
- Wavelength: 780 nm
- Emission duration: Continuous
- Laser output: Less than 44.6 µW
- (This output is the value measured at a
- distance of about 200 mm from the objective
- lens surface on the optical pick-up block with
- 7 mm aperture.)

Frequency response: 20-20 000 Hz $^{+1}_{-1.5}$ dB
Wow and flutter: Below measurable limit

Radio section

Frequency range:
- TV: 2 – 13 ch
- WEATHER: 1 – 7 ch
- FM: 87.5 – 108 MHz
- AM: 530 – 1 710 kHz

General

Time display: 12-hour system
Speaker:
- Front speaker: 80 mm (3 1/8 inches) dia. ×2, 3.2Ω
- Woofer: 82 mm (3 1/4 inches) dia., 3.2Ω

Outputs: ∩ (headphones) jack (ø 3.5 mm stereo minijack)
Power outputs:
- Front speaker: 2.6W + 2.6W (at Max power out)
- Woofer: 3.2 W

Power requirements: 120 V AC, 60 Hz
Dimensions:
- Approx. 185 × 195 × 196 mm (w/h/d)
- (Approx. 7 3/8 × 7 3/4 × 7 3/4 inches) incl.
- projecting parts and controls

Mass: Approx. 2 700 g (5 lb 15 oz)

Design and specifications are subject to change without notice.

TV/WEATHER/FM/AM CD CLOCK RADIO

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2002G0500-1
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Sony Corporation
Personal Audio Company
Published by Sony Engineering Corporation

SONY®

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

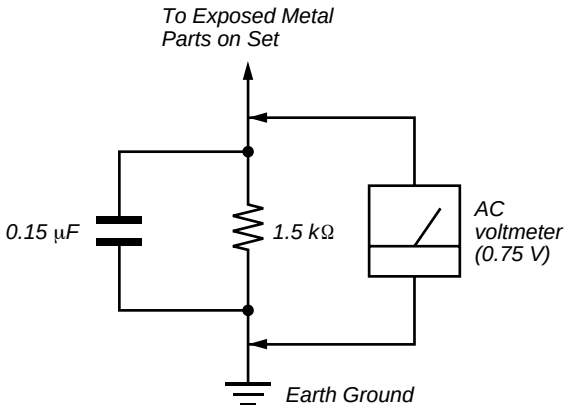


Fig. A. Using an AC voltmeter to check AC leakage.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

About CD-Rs/CD-RWs
This unit is compatible with CD-Rs/CD-RWs but playback capability may vary depending on the quality of the disc, the recording device and application software.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper lid is closed while turning ON the S301. (push switch type)
The following checking method for the laser diode is operable.

- **Method**
  Emission of the laser diode is visually checked.

1. Open the upper lid.
2. Push the S301 as shown in Fig.1.

Note: Do not push the detection lever strongly, or it may be bent or damaged.

3. Press the CD ▶II button.
4. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up.
   In this operation, the object lens will move up and down 2 times along with inward motion for the focus search.

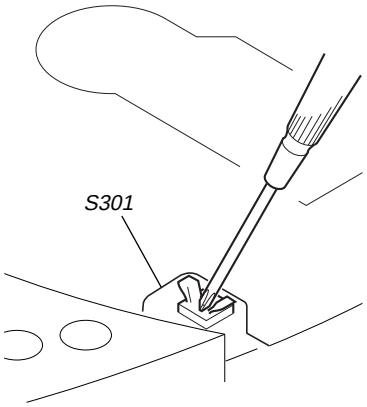
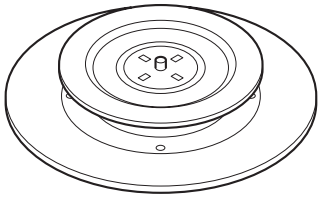


Fig.1 Method to push the S301

CHUCK PLATE JIG ON REPAIRING

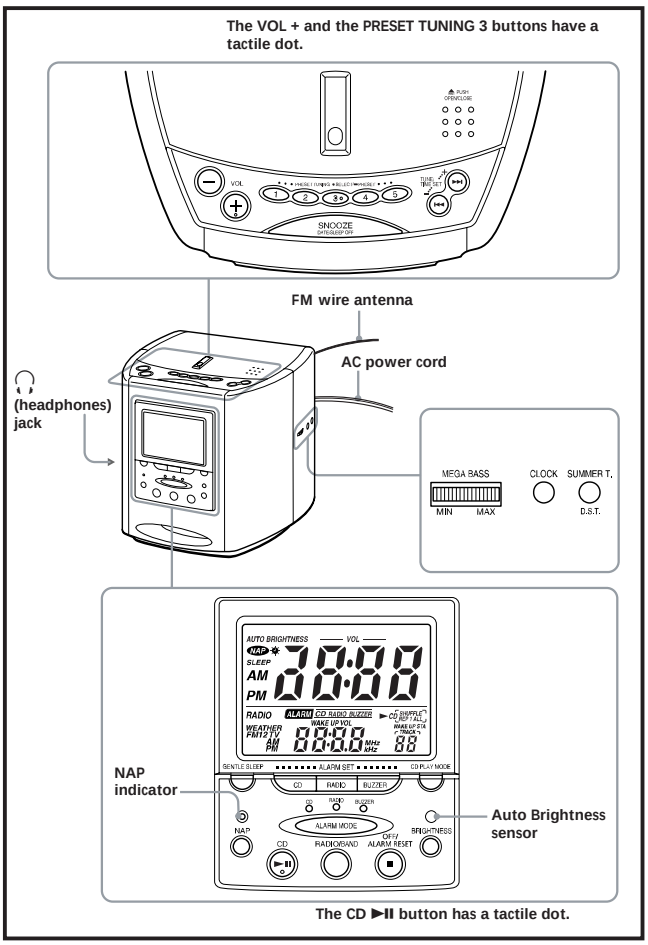
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1



SECTION 2
GENERAL

This section is extracted from instruction manual.



Features

- TV/WEATHER/FM/AM 4 band PLL (phase locked loop) synthesized clock radio
- Easy preset digital tuning with 25 memory presets
- Built-in CD player with CD-R/RW playback function
- High Quality 3D Sound with powerful MEGA BASS sound system
- Triple Alarm (Radio, buzzer or CD) with the extendable snooze function.
- Gentle Wake/Sleep Function
- Easy nap timer –one push operating.
- LCD with backlight which has a auto brightness control
- D.S.T. (Daylight Saving Time) –Summer time calculation.

Setting the Brightness of the Backlight

Press **BRIGHTNESS**.
Each press changes the brightness of the backlight as follows:

(Auto brightness) → (high) → (middle) → (low)

The initial setting is Auto brightness.

When Auto brightness is selected, the Auto brightness sensor detects ambient light and automatically adjusts the backlight brightness of the display in three levels.

Setting the Clock and Date

1 Plug in the clock radio.
The display will flash "AM 12:00".
2 Press **CLOCK** for a few seconds.
You will hear a beep and the year will start to flash in the display.
3 Press **TUNE/TIME SET +** or **–** until the correct year appears in the display.
4 Press **CLOCK** once.
5 Repeat steps **3** and **4** to set the month, day, hour, and minute.
After setting the minute, press **CLOCK** to start the counting of the seconds, and you will hear two short beeps.

To display the year and date, press **SNOOZE•DATE/SLEEP OFF** once for the date, and within 4 seconds press it again for the year. The display shows the date or year for a few seconds and then changes back to the current time.

To set the current time rapidly, hold down **TUNE/TIME SET +** or **–**.

In step **5**, when you press **CLOCK** after the minute setting to activate the clock, the seconds start counting from zero.

To change the display to the daylight saving time (summer time) indication

Press **D.S.T./SUMMER T.**
"☼" is displayed and the time indication changes to summer time.
To deactivate the summer time function, press **D.S.T./SUMMER T.** again.

Setting the Alarm

This clock radio is equipped with 3 alarm modes—CD, radio and buzzer. Before setting the alarm, make sure to set the clock (see "Setting the Clock and Date").

To Set the Alarm Time

To Set the CD Alarm:

For the CD alarm, the track you specified as the Wake-up track is played first.
(If the CD play mode is set to "SHUFFLE" or "SHUFFLE REP", however, all the tracks are played in random order.)

1 Press **ALARM SET CD** for a few seconds.
"ALARM", "CD" appear on the display.
After one beep, "ALARM" and the hour will start to flash in the display.
2 Press **TUNE/TIME SET +** or **–** until the desired hour appears.
To set the hour rapidly, hold down **TUNE/TIME SET +** or **–**.
3 Press **ALARM SET CD**.
The minute will flash.
4 Repeat step **2** to set the minute and press **ALARM SET CD**.
The wake-up track number flashes on the display.
5 Press **TUNE/TIME SET +** or **–** to select the desired wake-up track number.
The wake-up track number can be set up to 99.
6 Press **ALARM SET CD**.
The wake-up volume level flashes on the display.
7 Press **TUNE/TIME SET +** or **–** to adjust the wake-up volume level.
8 Press **ALARM SET CD**.
Two short beeps will confirm the setting.

To Set the Radio Alarm:

For the radio alarm, the station you specified as the Wake-up station is played.

1 Press **ALARM SET RADIO** for a few seconds.
"ALARM" and "RADIO" appear on the display.
After one beep, "ALARM" and the hour will start to flash on the display.
2 Press **TUNE/TIME SET +** or **–** until the desired hour appears.
To set the hour rapidly, hold down **TUNE/TIME SET +** or **–**.
3 Press **ALARM SET RADIO**.
The minute will flash.
4 Repeat step **2** to set the minute and press **ALARM SET RADIO**.
"WAKE UP STA" appears and the preset number flashes on the display.
5 Press **TUNE/TIME SET +** or **–** to select the wake-up station.
Preset number changes in the order as follows:

P– ↔ AM P1 to 5 ↔ FM1 P1 to 5 ↔ WEATHER ↔ TV P1 to 5 ↔ FM2 P1 to 5 ↔ P1 to 5

"P–" is the last received station.
You can directly select the desired wake-up station by pressing **RADIO/BAND** or the **PRESET TUNING** button while the indication "P–" is not displayed.
6 Press **ALARM SET RADIO**.
The wake-up volume level flashes on the display.
7 Press **TUNE/TIME SET +** or **–** to adjust the wake-up volume level.
8 Press **ALARM SET RADIO**.
Two short beeps will confirm the setting.

To Set the Buzzer Alarm:

1 Press **ALARM SET BUZZER** for a few seconds.
"ALARM" and "BUZZER" appear on the display.
After one beep, "ALARM" and the hour will start to flash on the display.
2 Press **TUNE/TIME SET +** or **–** until the desired hour appears.
To set the hour rapidly, hold down **TUNE/TIME SET +** or **–**.
3 Press **ALARM SET BUZZER**.
The minute will flash.
4 Repeat step **2** to set the minute and press **ALARM SET BUZZER**.
Two short beeps will confirm the setting.

Note
The wake-up volume for the buzzer alarm is not selectable by the setting.

To Set the Alarm Mode

Before setting the alarm mode, be sure to set the alarm time. (See "To Set the Alarm Time".)
Repeat the pressing of **ALARM MODE** to select the alarm mode you want. Every time you press **ALARM MODE**, CD/RADIO/BUZZER indicator changes in the order as follows:

CD → RADIO → BUZZER → CD+RADIO → CD+BUZZER → RADIO+BUZZER → CD+RADIO+BUZZER → OFF → CD

The alarm time which plays or sounds next is displayed.

To Check the Alarm Setting

For **ALARM SET CD**, pressing once displays the alarm time, pressing twice displays the wake-up track number, and pressing three times displays the wake-up volume.
For **ALARM SET RADIO**, pressing once displays the alarm time, pressing twice displays the wake-up station, and pressing three times displays the wake-up volume.
For **ALARM SET BUZZER**, pressing once displays the alarm time.
The display shows the alarm setting for a few seconds and then returns to the previous display.

Alarm time in CD alarm, radio alarm and buzzer alarm is set at AM 12:00 when you purchased the unit.

ALARM ON—

If you set the CD alarm and there is no disc in the CD player, the buzzer alarm will sound in its place at the time set.

For the buzzer alarm, the beeping of the alarm becomes more rapid and sounds increasing in volume (Gentle Wake function) after every few seconds in three progressive stages.

When headphones (not supplied) are plugged into the unit, buzzer alarm through the speakers and the headphones regardless of the alarm mode setting. In this case, the unit will not play a CD or radio.

Note
When CD, radio and buzzer alarms are set for the same time, the CD alarm takes precedence. If the CD alarm is not set, the radio alarm takes precedence.

To Doze for a Few More Minutes

Press **SNOOZE•DATE/SLEEP OFF**.
The CD, radio or buzzer alarm turns off but will be automatically activated again after about 10 minutes. Every time you press **SNOOZE•DATE/SLEEP OFF**, the snooze time changes as follows:

10 → 20 → 30 → 40 → 50 → 60

The display shows the snooze time for a few seconds and returns to show the current time. When you press **SNOOZE•DATE/SLEEP OFF** after the current time appeared, the snooze time starts from 10 minutes again.

The maximum length of the snooze time is 60 minutes.

ALARM OFF—

The CD, radio, or buzzer alarm is turned off automatically after 60 minutes.

To Stop the Alarm

Press **OFF/ALARM RESET** ■ to turn off the alarm.
The alarm will come on again at the same time the next day.

To Deactive the Alarm

Press **ALARM MODE** repeatedly until CD/RADIO/BUZZER indicator go off.

Setting the Sleep Timer

You can enjoy falling asleep to the CD or the radio using the built-in sleep timer that turns off the CD or the radio automatically after a preset duration.

Press **SLEEP** during CD or radio play.
You can set the sleep timer to durations of 90, 60,30, or 15 minutes. Every push changes the display as follows:

off (current time) → 90 → 60 → 30 → 15

"SLEEP" will appear in the display when the duration time is set.
The CD or the radio will play for the time you set, then shut off.

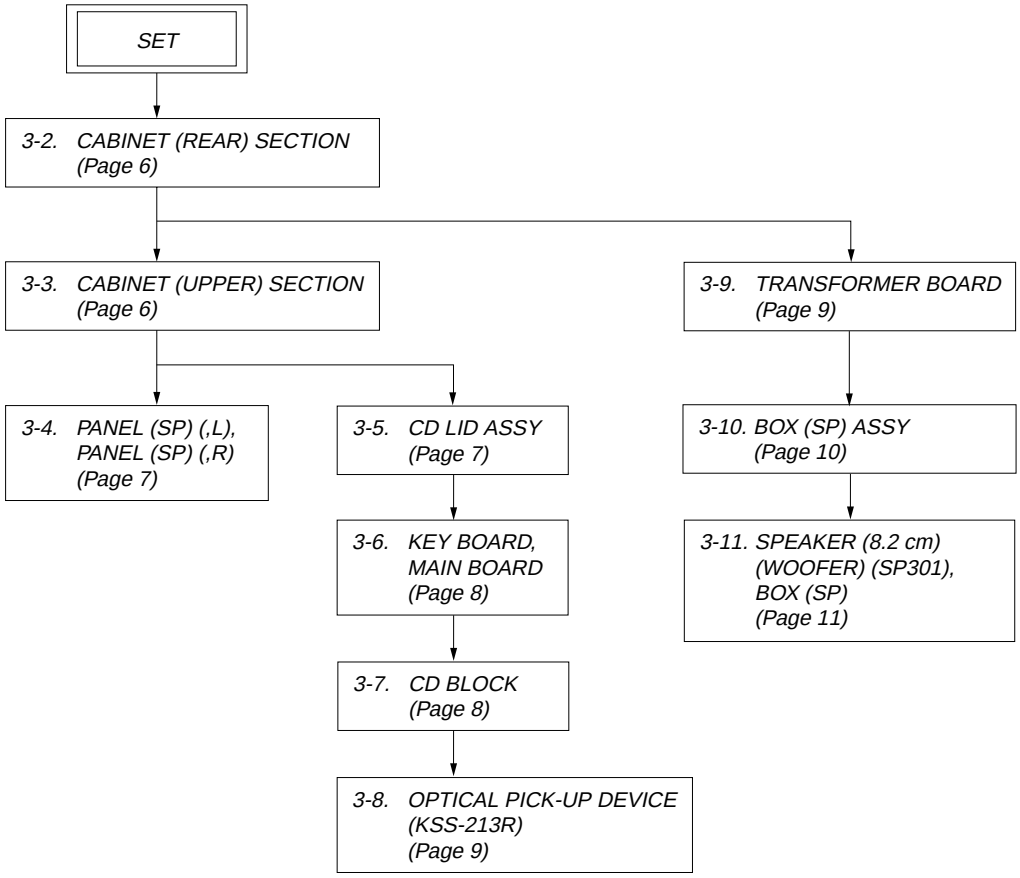
When the sleep timer reaches a remaining time of a few minutes, "SLEEP" will flash in the display and the sound output will gradually decrease in volume (Gentle Sleep function).
If you press **VOL +** or **–** at this time, "SLEEP" will light up and the decrease in the volume will stop.

To turn off the CD or the radio before the preset time, press **SNOOZE•DATE/SLEEP OFF**.

SECTION 3
DISASSEMBLY

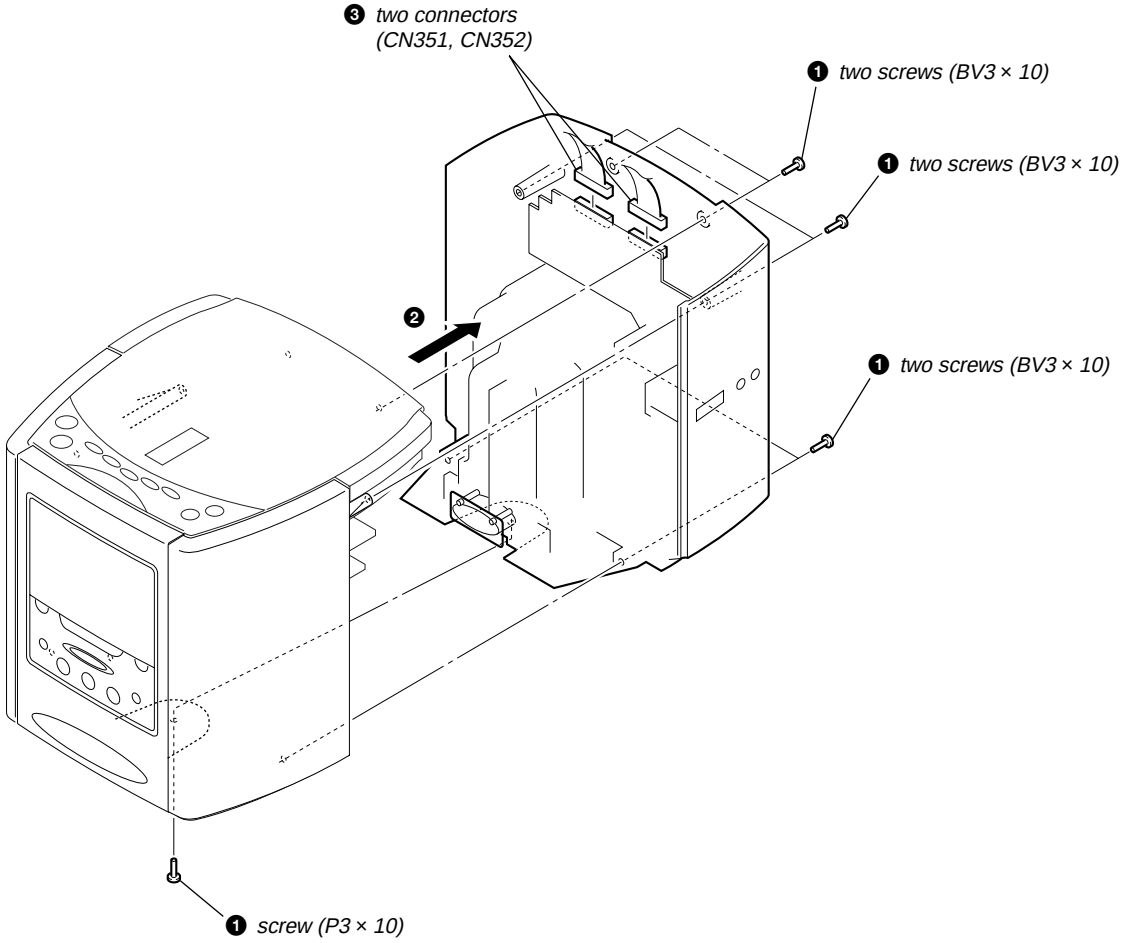
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

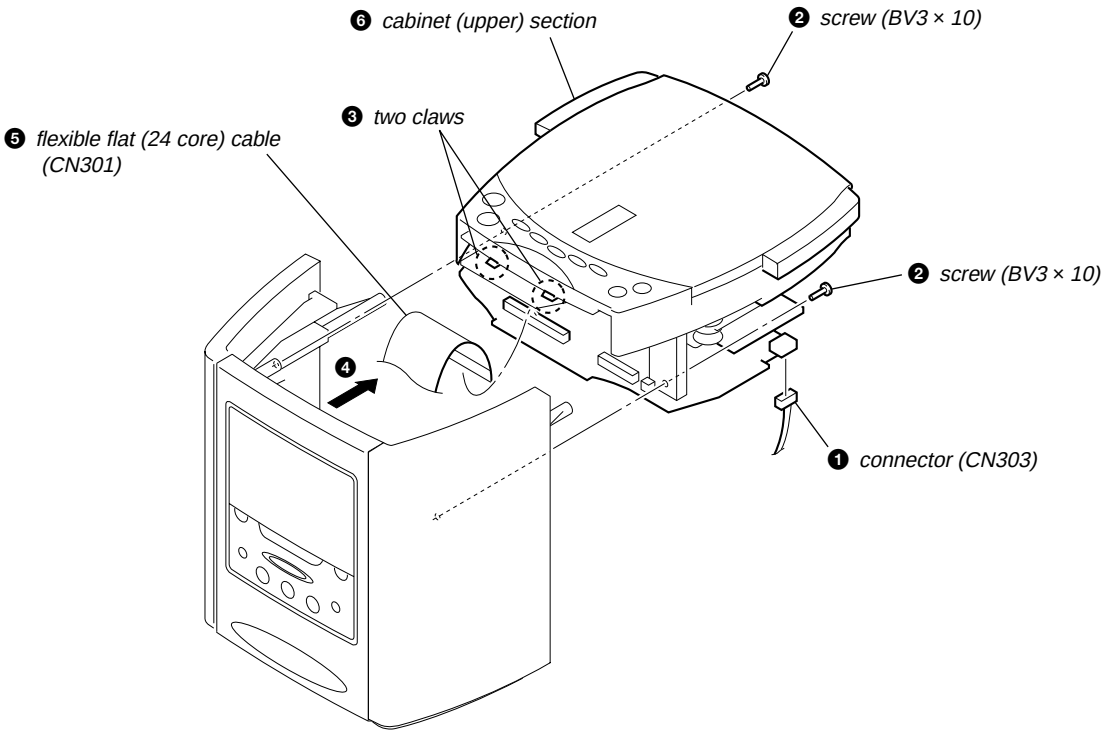

SET
3-2. CABINET (REAR) SECTION (Page 6)
3-3. CABINET (UPPER) SECTION (Page 6)
3-9. TRANSFORMER BOARD (Page 9)
3-4. PANEL (SP) (,L), PANEL (SP) (,R) (Page 7)
3-5. CD LID ASSY (Page 7)
3-10. BOX (SP) ASSY (Page 10)
3-6. KEY BOARD, MAIN BOARD (Page 8)
3-11. SPEAKER (8.2 cm) (WOOFER) (SP301), BOX (SP) (Page 11)
3-7. CD BLOCK (Page 8)
3-8. OPTICAL PICK-UP DEVICE (KSS-213R) (Page 9)

Note: Follow the disassembly procedure in the numerical order given.

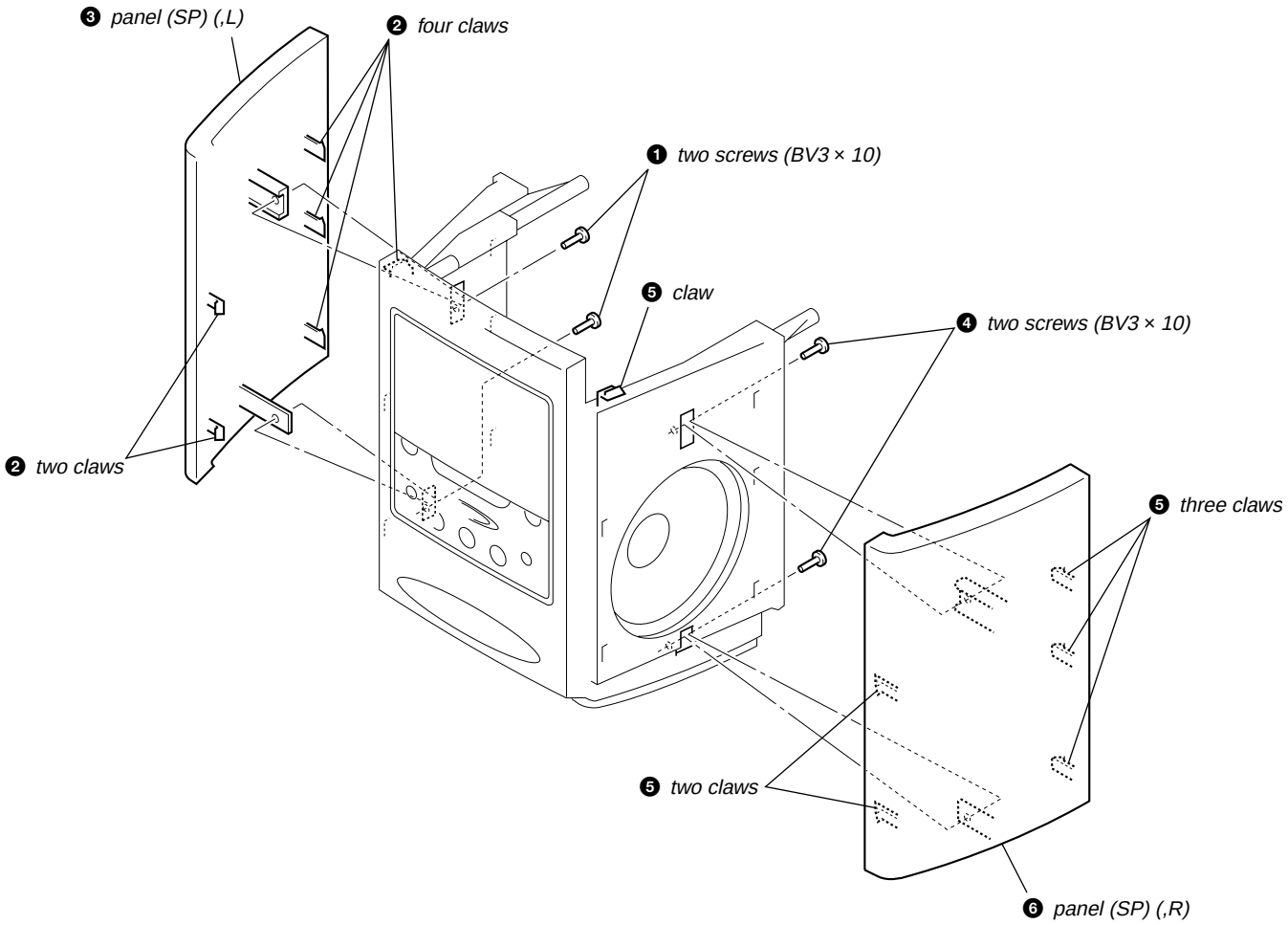
3-2. CABINET (REAR) SECTION



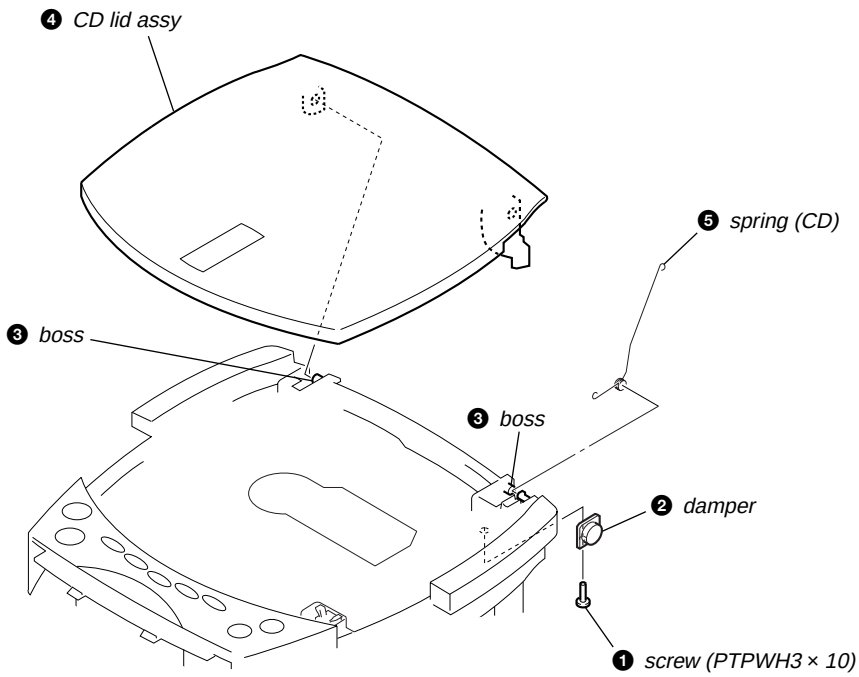
3-3. CABINET (UPPER) SECTION



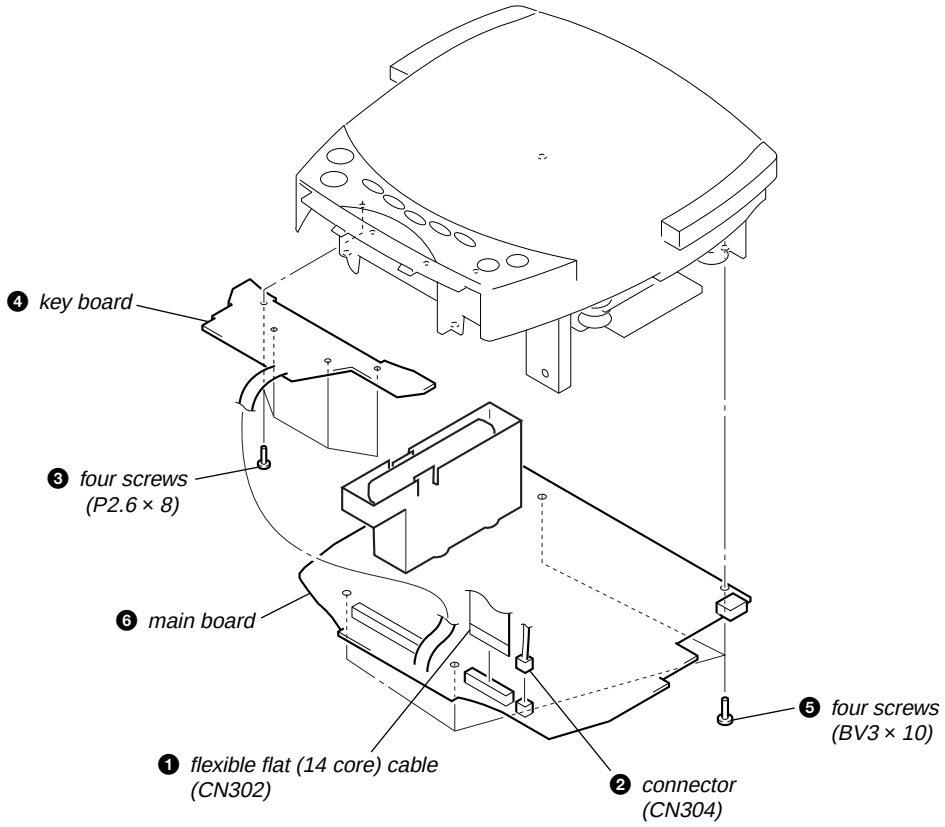
3-4. PANEL (SP) (,L), PANEL (SP) (,R)



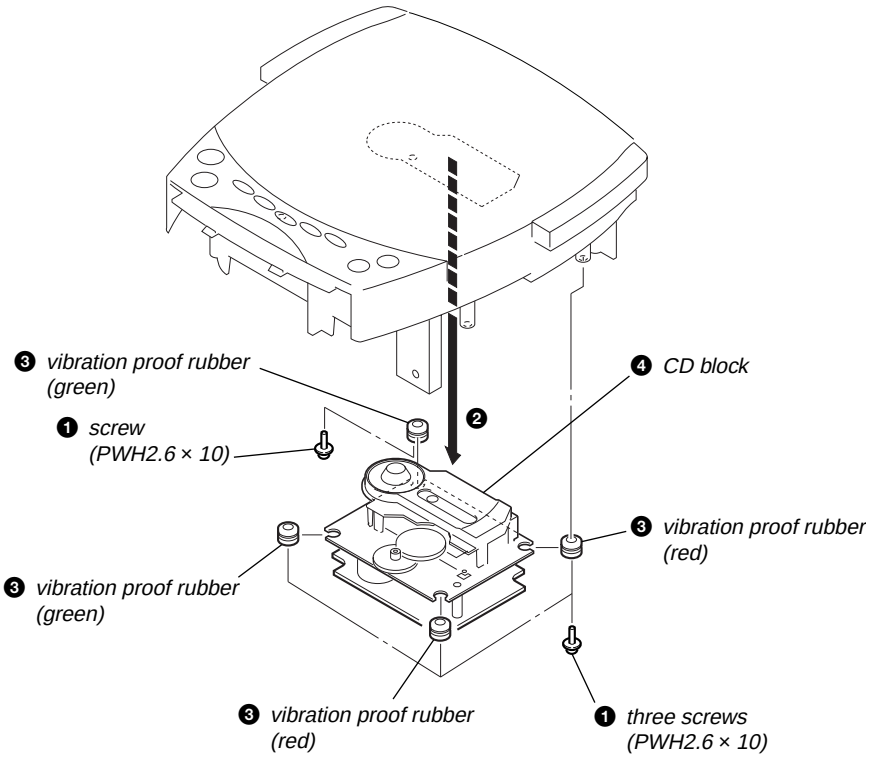
3-5. CD LID ASSY



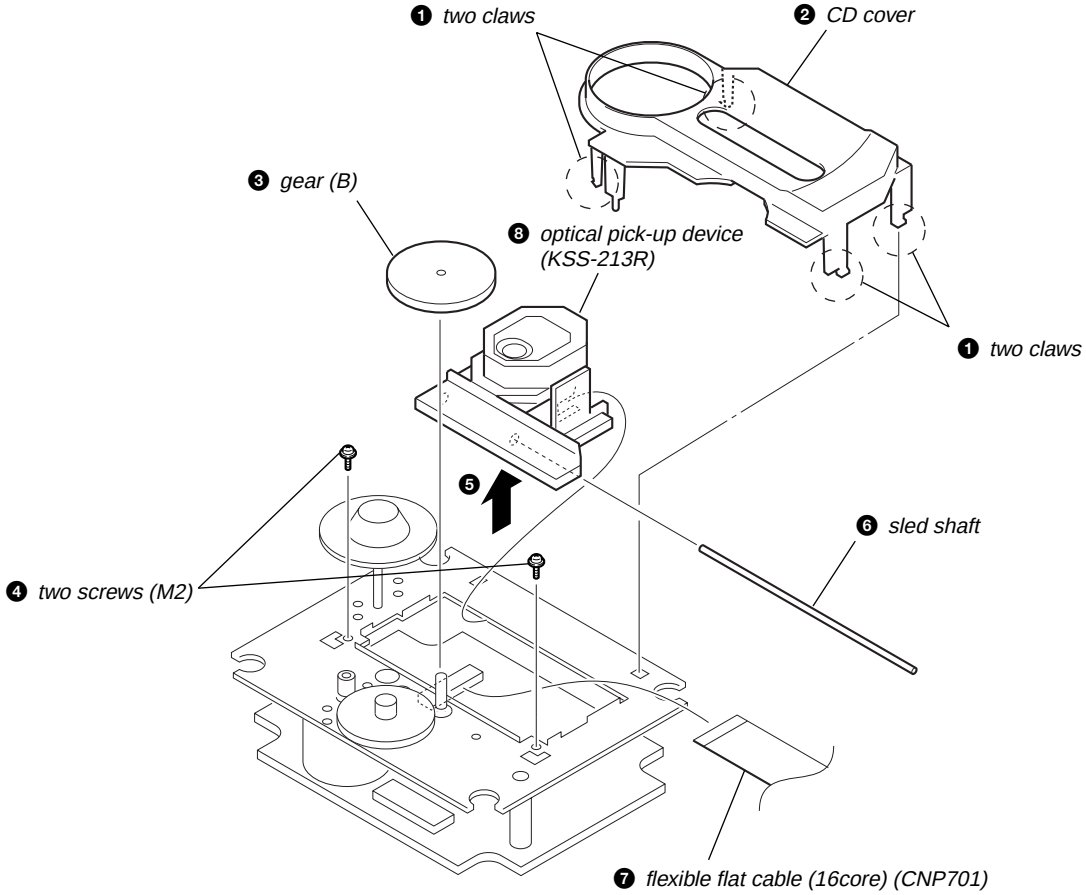
3-6. KEY BOARD, MAIN BOARD



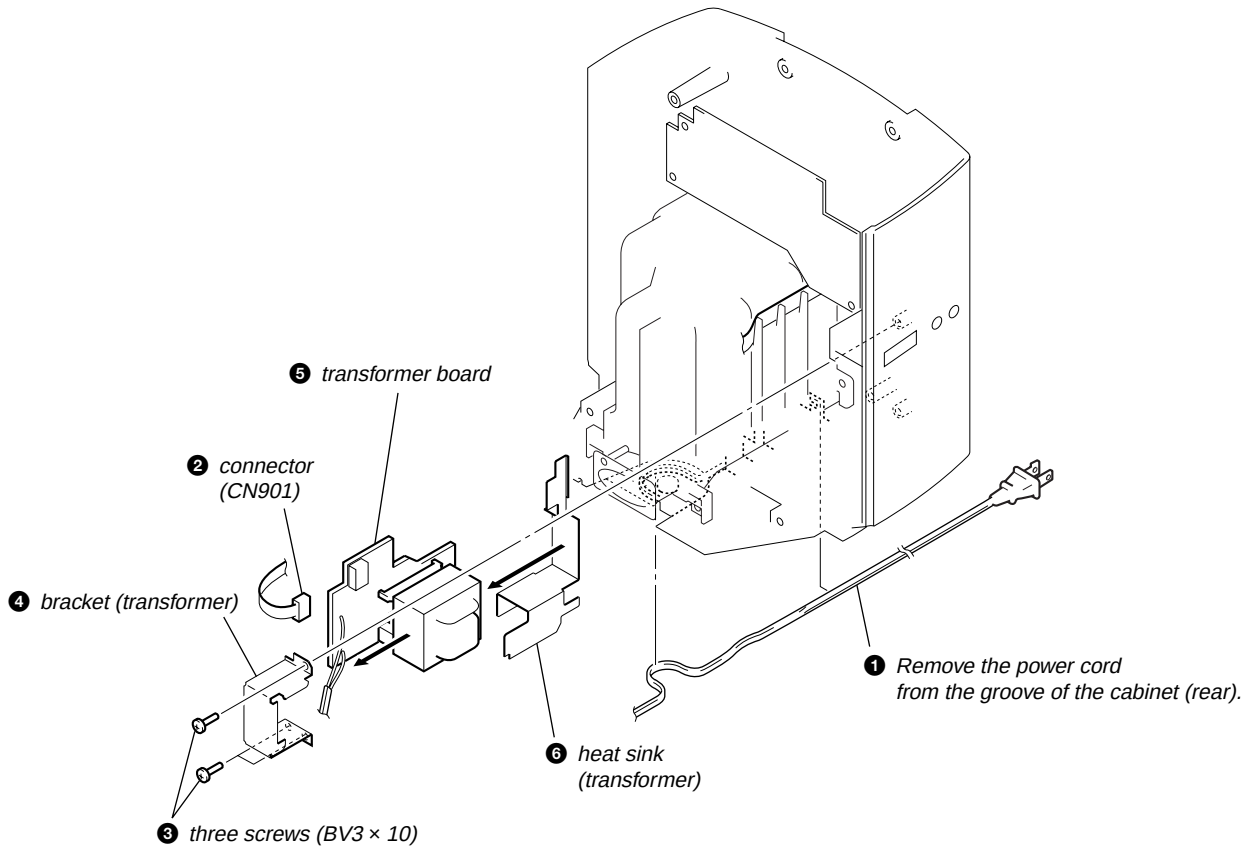
3-7. CD BLOCK



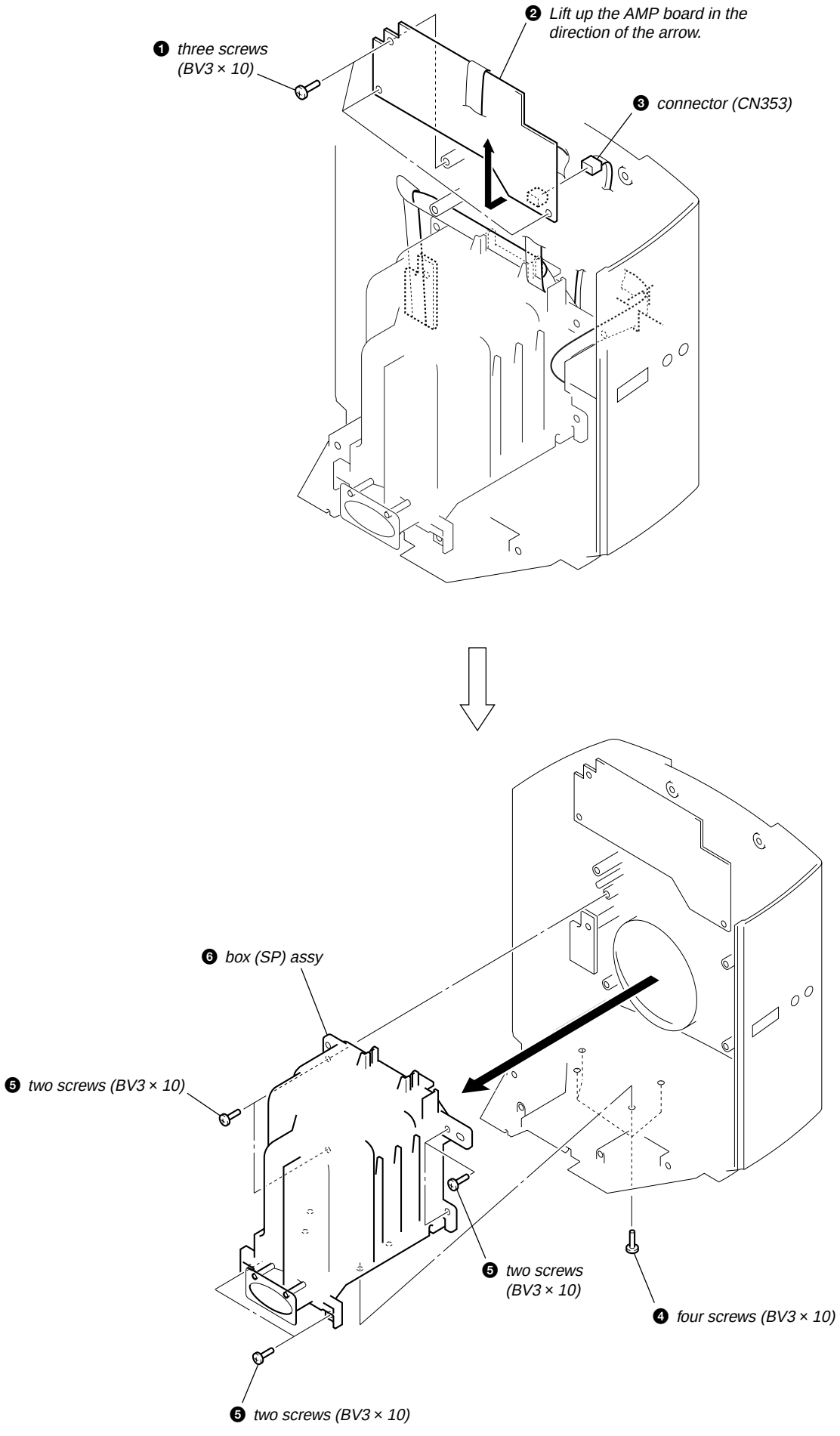
3-8. OPTICAL PICK-UP DEVICE (KSS-213R)



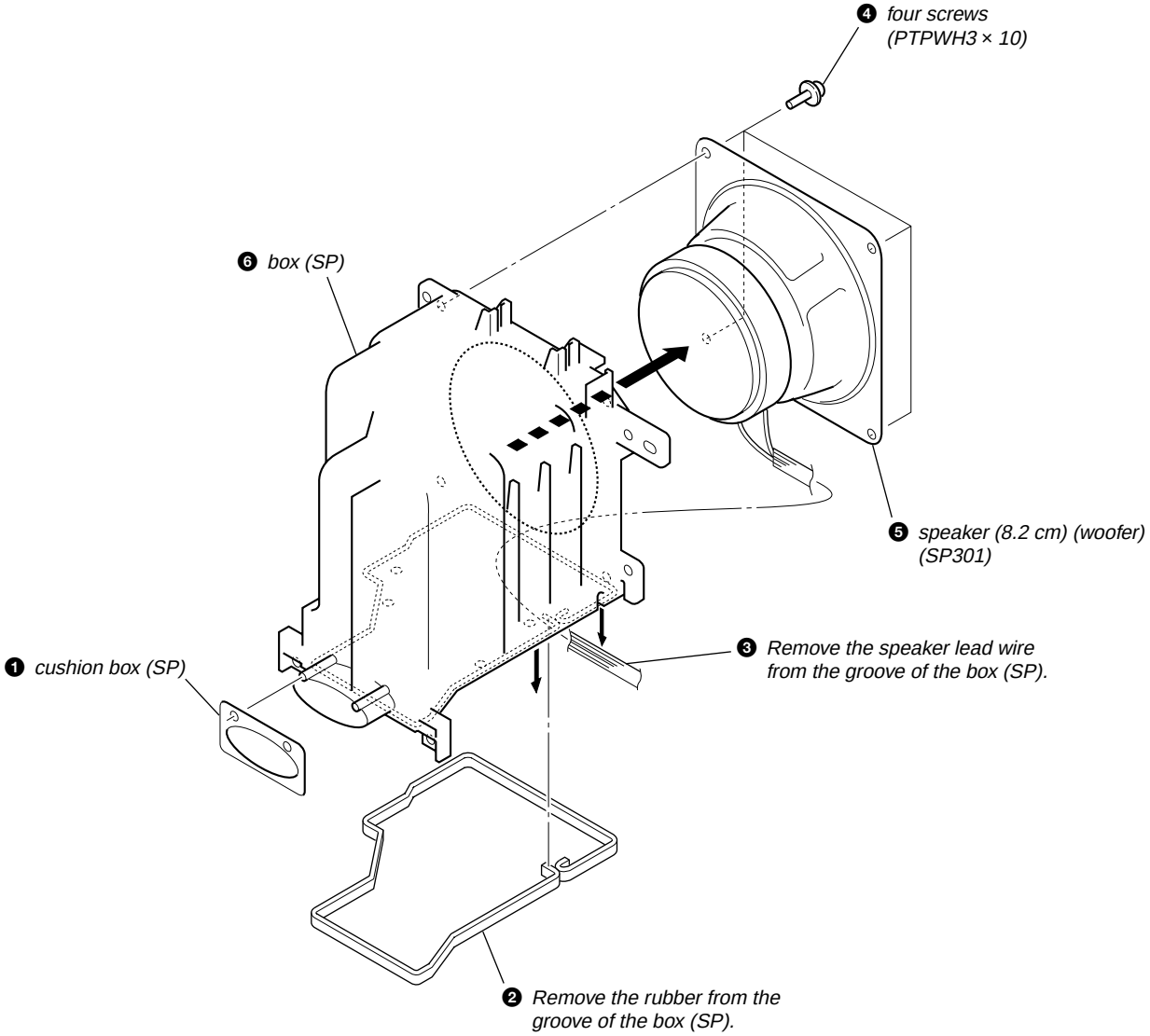
3-9. TRANSFORMER BOARD


❺ transformer board
❷ connector (CN901)
❹ bracket (transformer)
❶ Remove the power cord from the groove of the cabinet (rear).
❻ heat sink (transformer)
❸ three screws (BV3 × 10)

3-10. BOX (SP) ASSY


❶ three screws (BV3 × 10)
❷ Lift up the AMP board in the direction of the arrow.
❸ connector (CN353)
❻ box (SP) assy
❺ two screws (BV3 × 10)
❺ two screws (BV3 × 10)
❹ four screws (BV3 × 10)
❺ two screws (BV3 × 10)

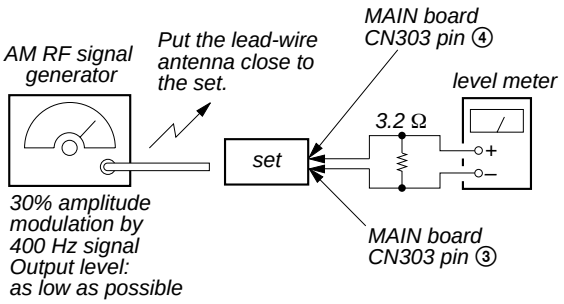
3-11. SPEAKER (8.2 cm) (WOOFER) (SP301), BOX (SP)

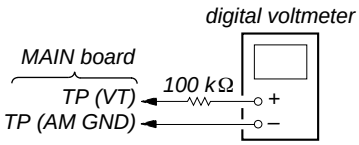

❹ four screws
(PTPWH3 × 10)
❻ box (SP)
❺ speaker (8.2 cm) (woofer)
(SP301)
❸ Remove the speaker lead wire
from the groove of the box (SP).
❶ cushion box (SP)
❷ Remove the rubber from the
groove of the box (SP).

SECTION 4
ELECTRICAL ADJUSTMENTS

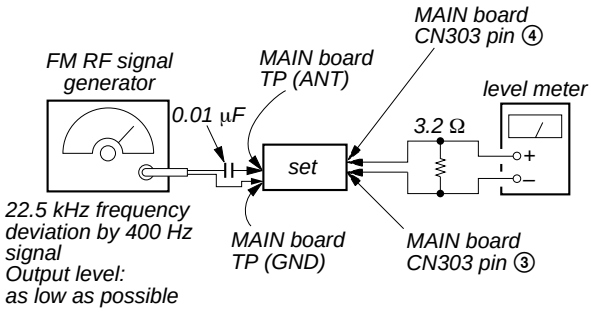
TUNER SECTION | 0 dB=1 μV

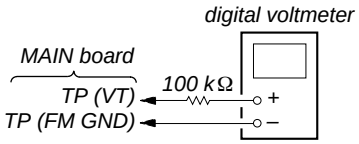
[AM]
Setting:
Function : RADIO
RADIO BAND button : AM


AM RF signal generator
Put the lead-wire antenna close to the set.
MAIN board CN303 pin ④
level meter
3.2 Ω
set
30% amplitude modulation by 400 Hz signal
Output level: as low as possible
MAIN board CN303 pin ③



[FM/TV/WEATHER]
Setting:
Function : RADIO
RADIO BAND button: FM or TV or WEATHER





- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.
- Remove FM antenna in FM adjustment.

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
RV2	1,000 kHz

AM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L1	530 kHz	2.3 ± 0.05 V
Confirmation	1,710 kHz	8.7 ± 1.0 V

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L5	580 kHz
CT1	1,490 kHz

FM/TV (2 – 6 CH) VCO VOLTAGE CONFIRMATION		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
Confirmation	108 MHz	15.0 ± 1.0 V
Confirmation	TV 2 ch	2.35 ± 0.1 V

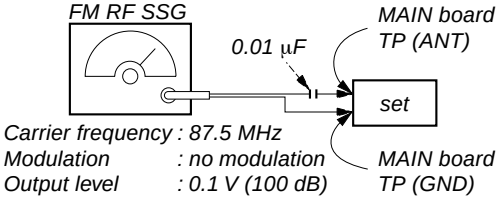
FM/TV (2 – 6 CH) TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L2	TV 2 ch
CT2	108 MHz

TV (7 – 13 CH)/WEATHER (1– 7 CH) VCO VOLTAGE CONFIRMATION		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
Confirmation	TV 13 ch	10.0 ± 1.0 V
Confirmation	WEATHER 2 ch	4.6 ± 0.5 V

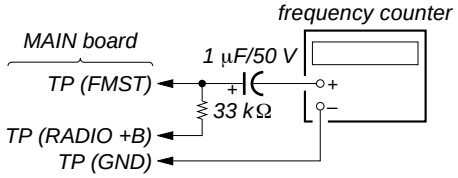
TV (7 – 13 CH)/WEATHER (1– 7 CH) TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L3	WEATHER 2 ch
CT3	TV 13 ch

Adjustment Location: MAIN board (See page 13)

FM STEREO ADJUSTMENT
Setting:
Function: RADIO
RADIO BAND button: FM



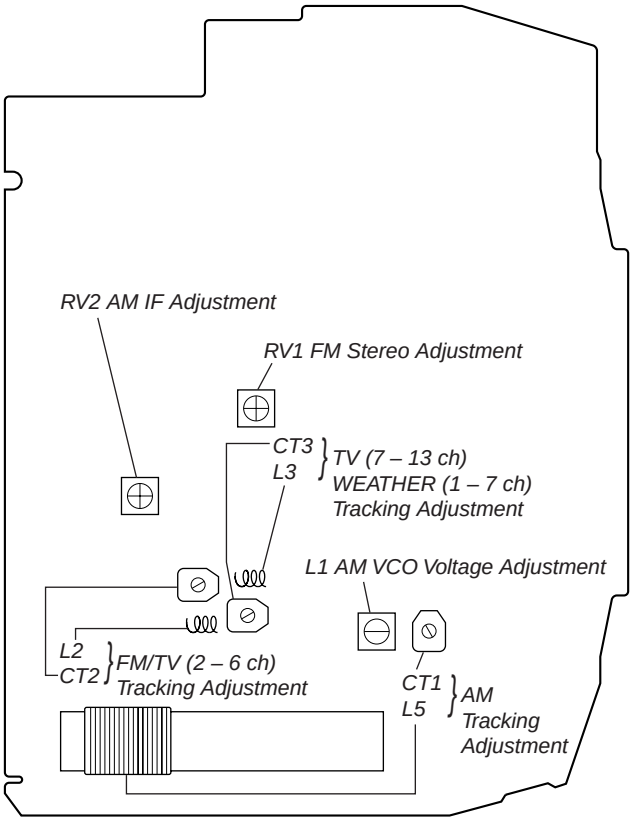
1. Connect the frequency counter to TP (FMST) and TP (RADIO +B) as shown the figure below.
2. Tune the set to 87.5 MHz.
3. Adjust RV1 for 75.95 to 76.05 kHz reading on the frequency counter.



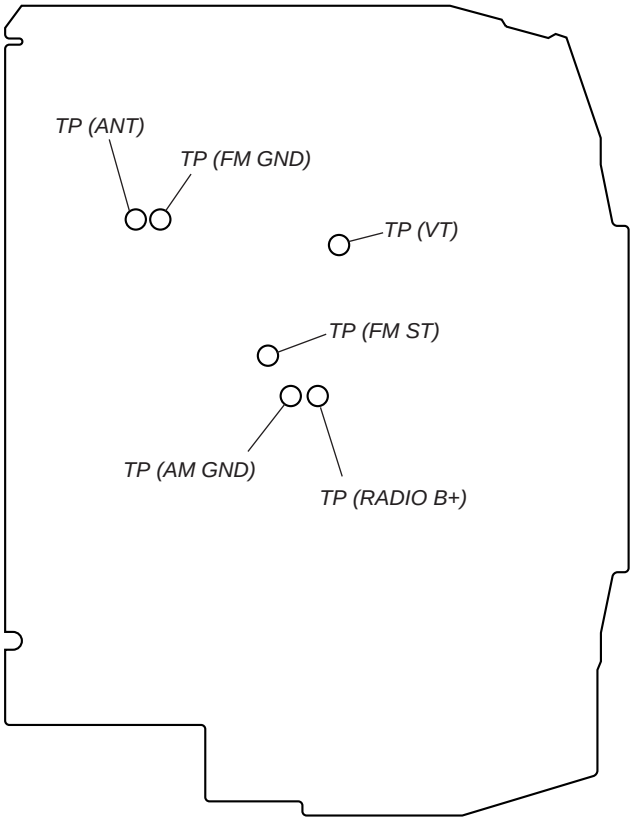
Adjustment Location: MAIN board (See page 13)

Adjustment Location:

– MAIN BOARD (Component Side) –

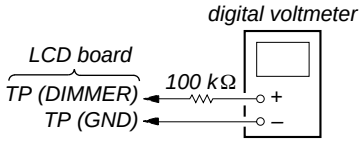


– MAIN BOARD (Conductor Side) –



AUTO BRIGHTNESS ADJUSTMENT

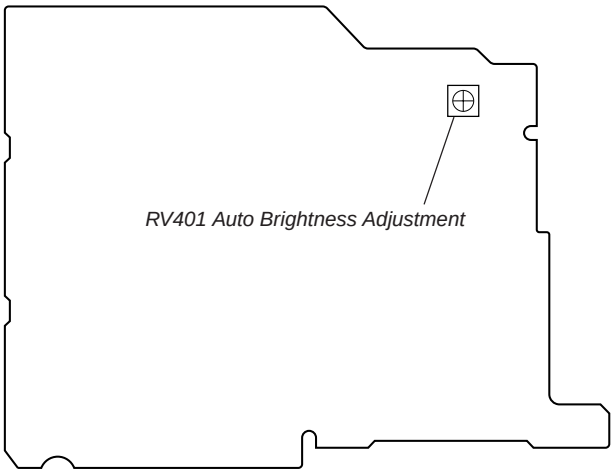
Connecting:



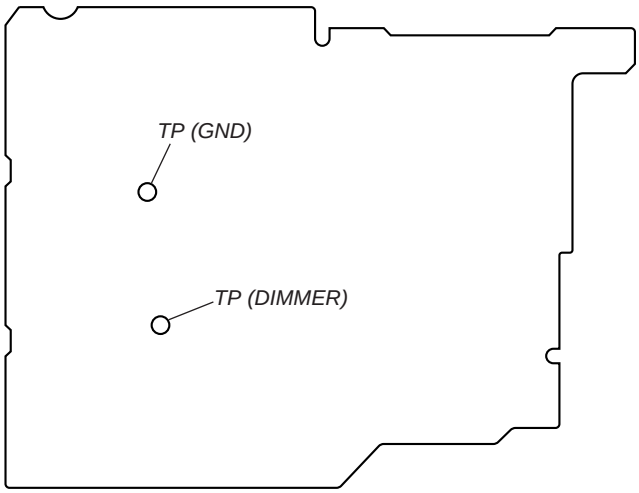
1. Set to power off state.
2. Connect a digital voltmeter to TP (DIMMER) and TP (GND) on the LCD board and confirm that the voltage is 0 V.
3. Turn on the power.
4. Connect the digital voltmeter to TP (DIMMER) and TP (GND) on the LCD board and adjust RV401 so that the voltage becomes 1.5 ± 0.05 V.
5. Turn off the power.
6. Applied sufficient light to IC403 (brightness sensor) on the DIMMER board and confirm that the voltage is 3.3 ± 0.3 V.
7. Short the BP404.

Adjustment Location:

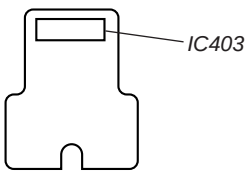
– LCD BOARD (Component Side) –



– LCD BOARD (Conductor Side) –



– DIMMER BOARD (Conductor Side) –



CD SECTION

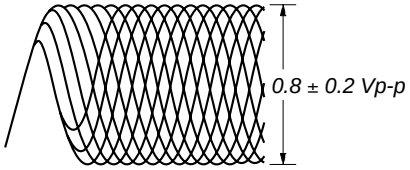
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

FOCUS BIAS CHECK

1. Connect the oscilloscope to TP (RF) and TP (GND) on the CD board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ▶II (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

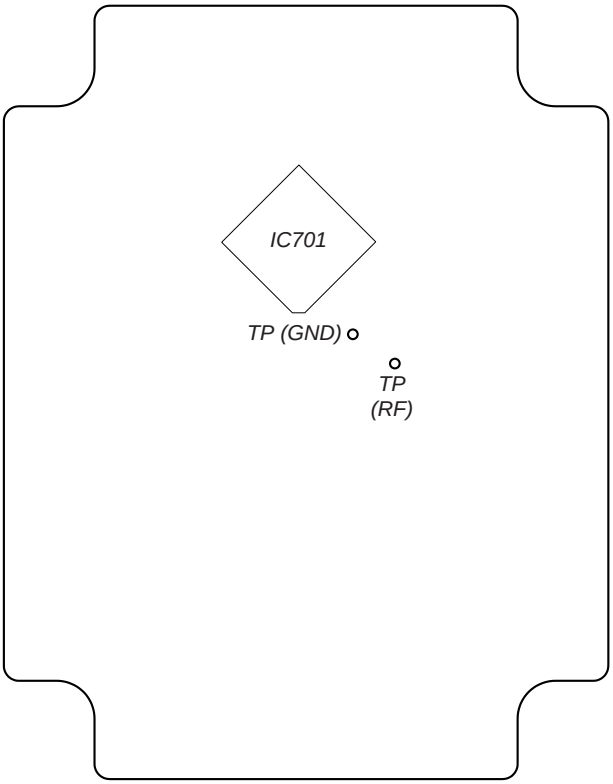
VOLT/DIV: 0.2 V (with the 10: 1 probe in use.)
TIME/DIV: 500 ns



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

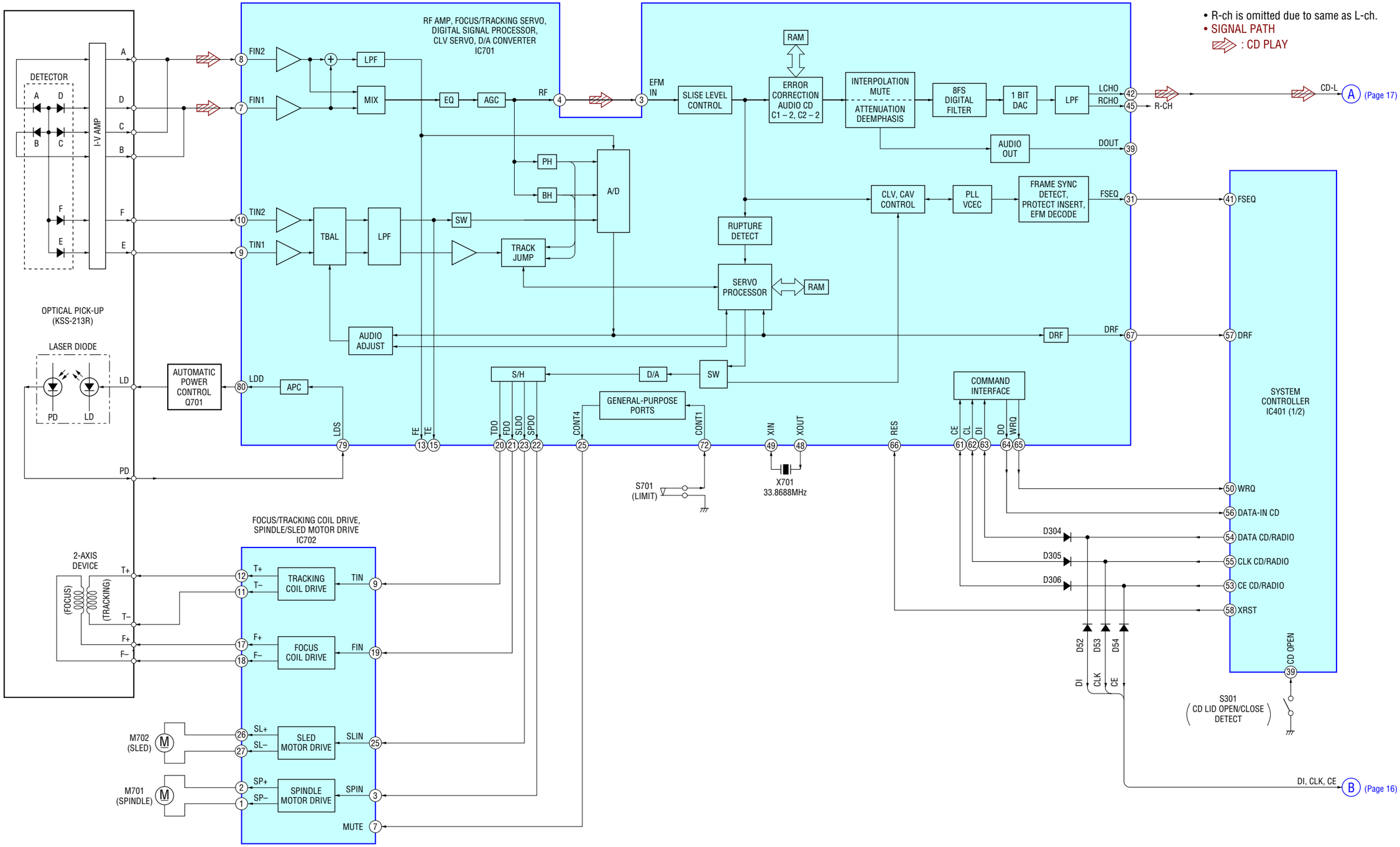
Adjustment Location:

– CD BOARD (Conductor Side) –

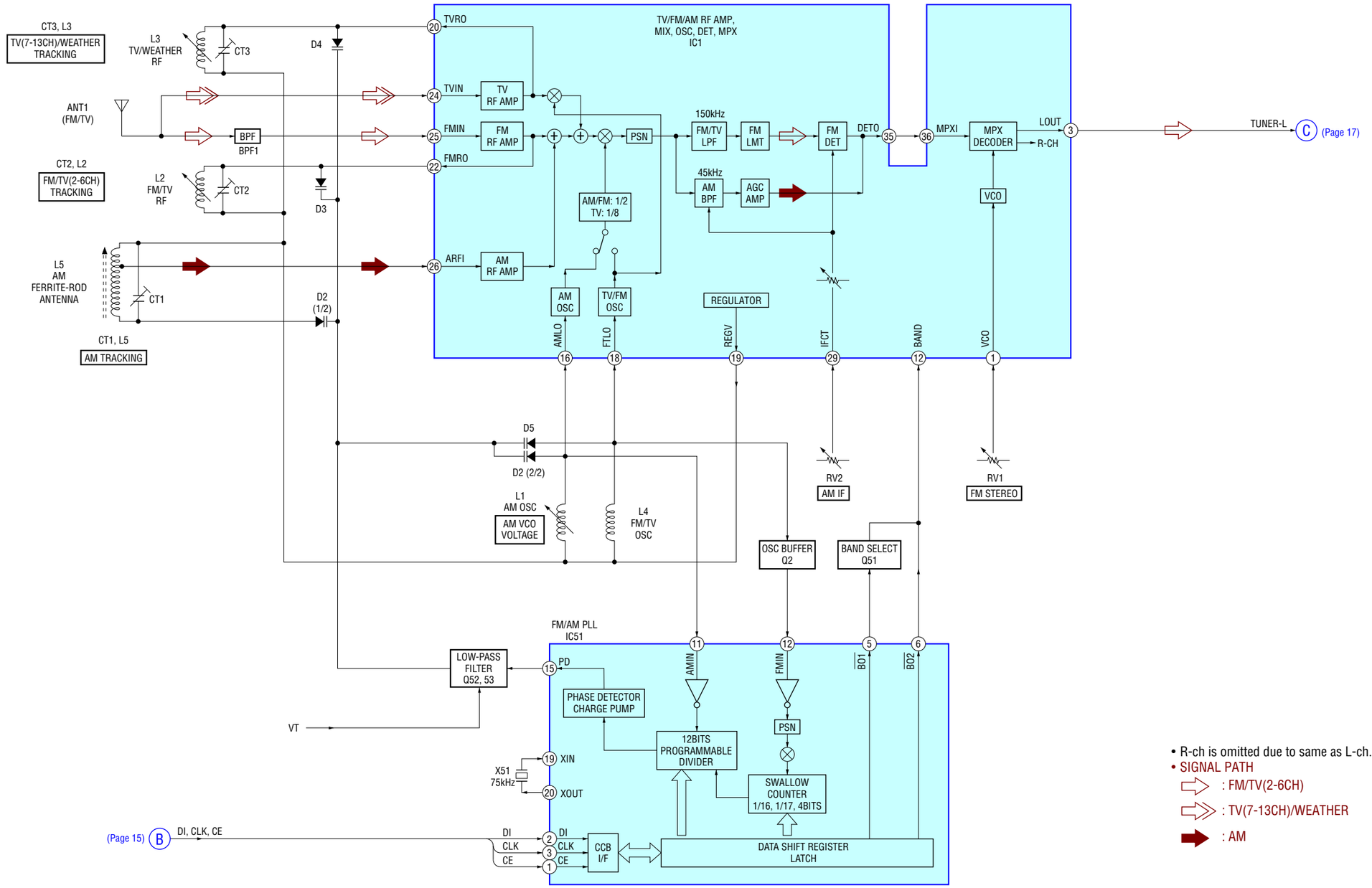


SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM – CD Section –

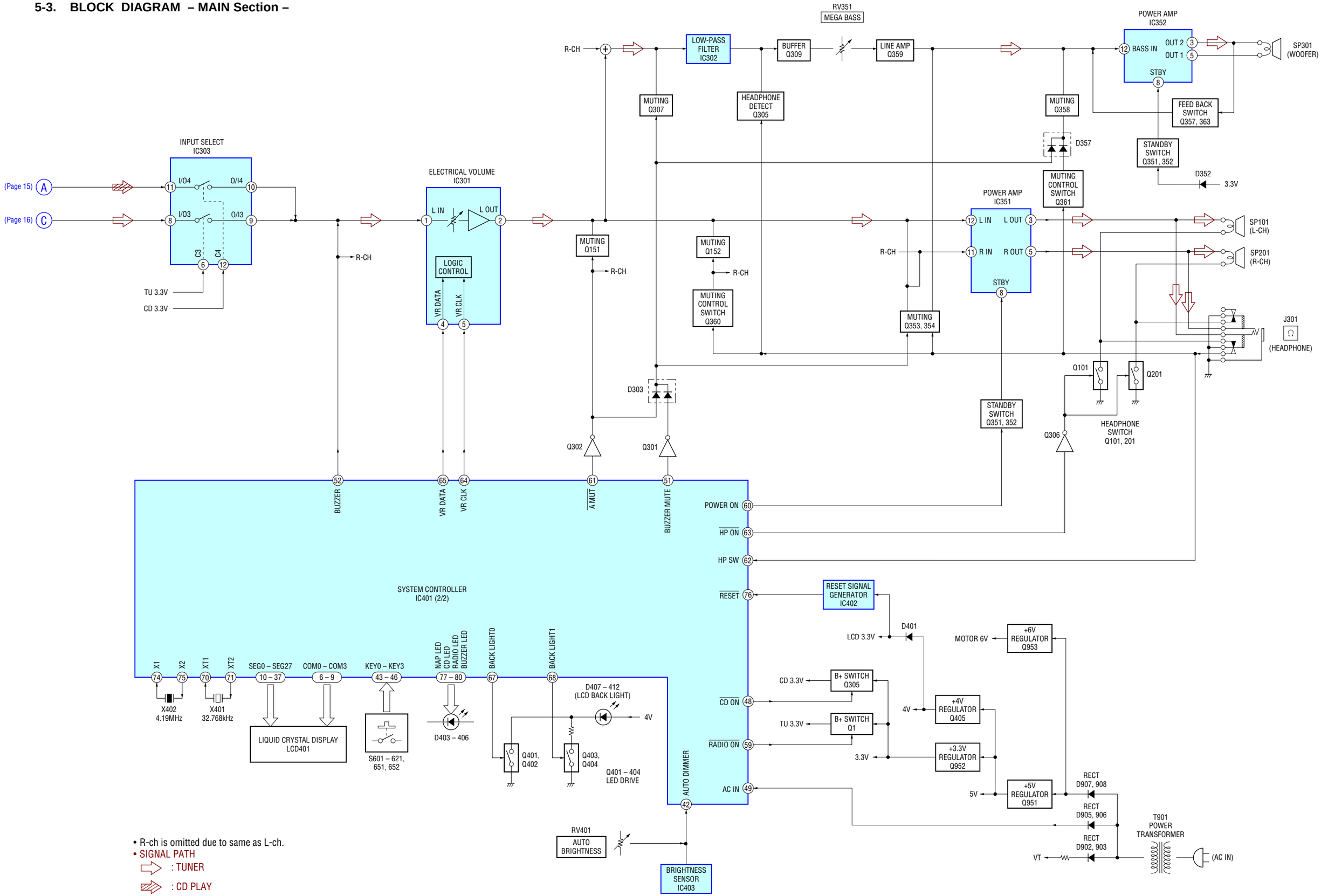


5-2. BLOCK DIAGRAM – TUNER Section –



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : FM/TV(2-6CH)
  - : TV(7-13CH)/WEATHER
  - : AM

5-3. BLOCK DIAGRAM – MAIN Section –



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER
  - : CD PLAY

5-4. NOTE FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- [ ]←— : indicates side identified with part number.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

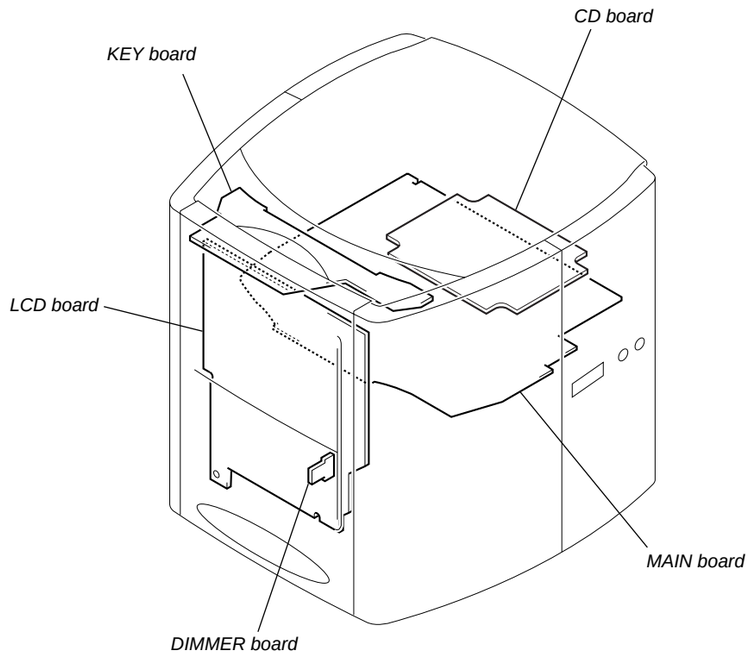
Note on Schematic Diagram:

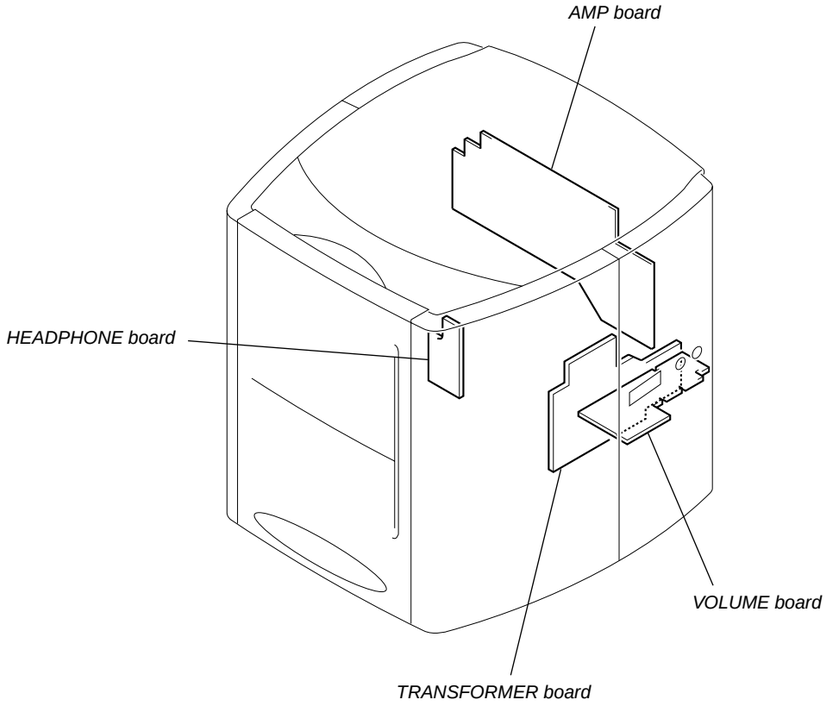
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- : B+ Line.
- : B– Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM/TV (2 – 6 ch)
  - : AM
  - : TV (7 – 13 ch)/WEATHER (1 – 7 ch)
  - : CD

- **Circuit Boards Location**

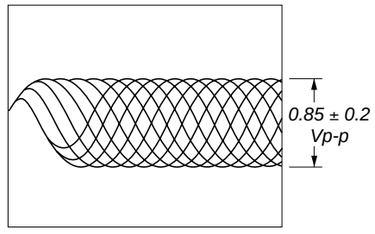




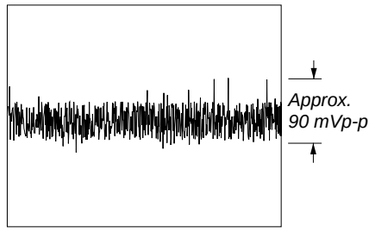
• **Waveforms**

– CD Board –

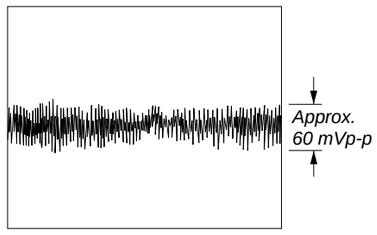
❶ IC701 ④ (RF) (CD PLAY mode)



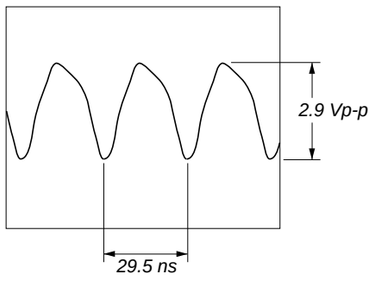
❷ IC701 ⑬ (FE) (CD PLAY mode)



❸ IC701 ⑮ (TE) (CD PLAY mode)

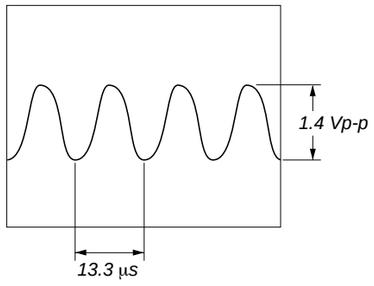


❹ IC701 ㊽ (XOUT)



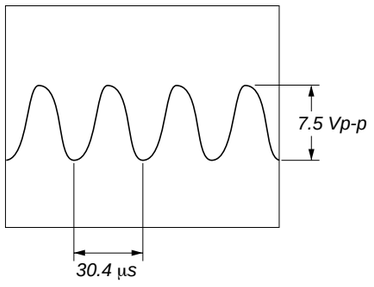
– MAIN Board –

⓫ IC51 ⑳ (XOUT) (RADIO ON mode)

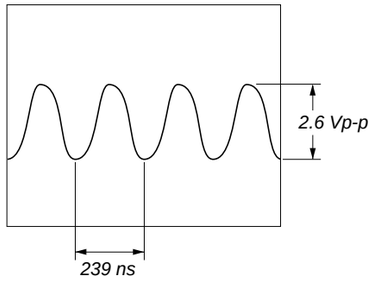


– LCD Board –

㉑ IC401 ㊿ (XT1)



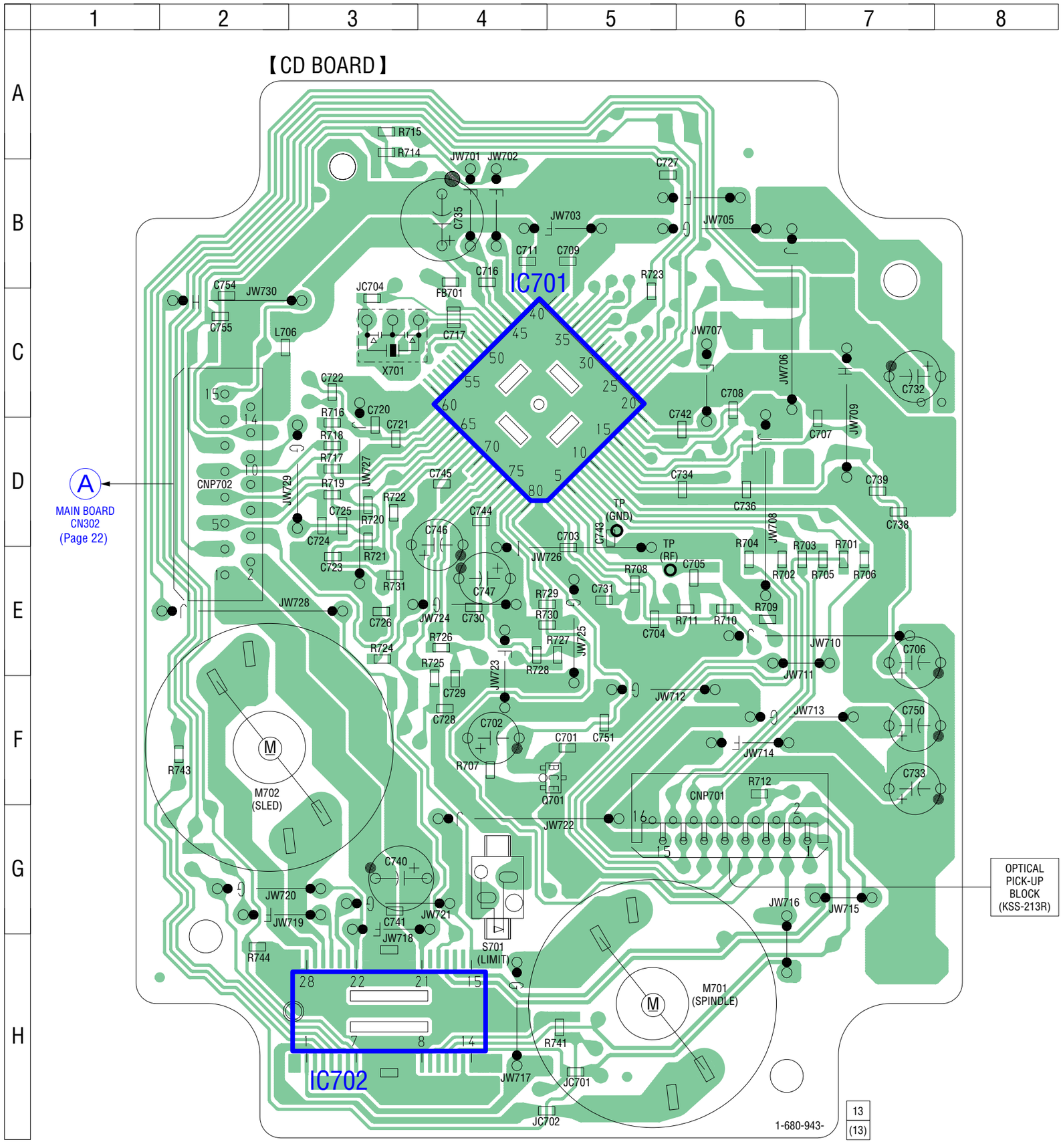
㉒ IC401 ㉔ (X1) (CD PLAY mode)



5-5. PRINTED WIRING BOARD – CD Section – • See page 18 for Circuit Boards Location.

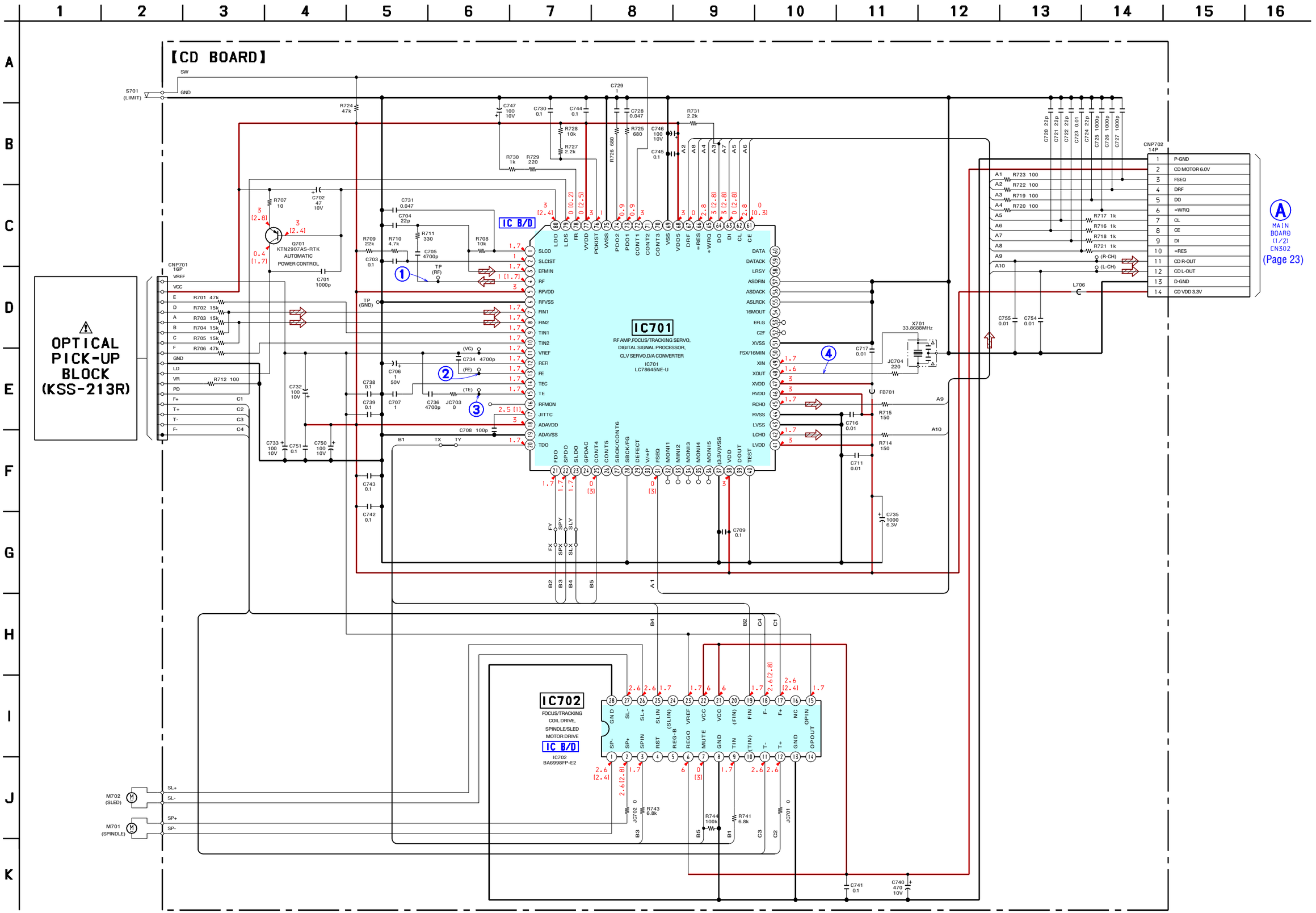
• **Semiconductor Location**

Ref. No.	Location
IC701	C-4
IC702	H-3
Q701	F-5



5-6. SCHEMATIC DIAGRAM – CD Section –

• See page 19 for Waveforms. • See page 28 for IC Block Diagrams.

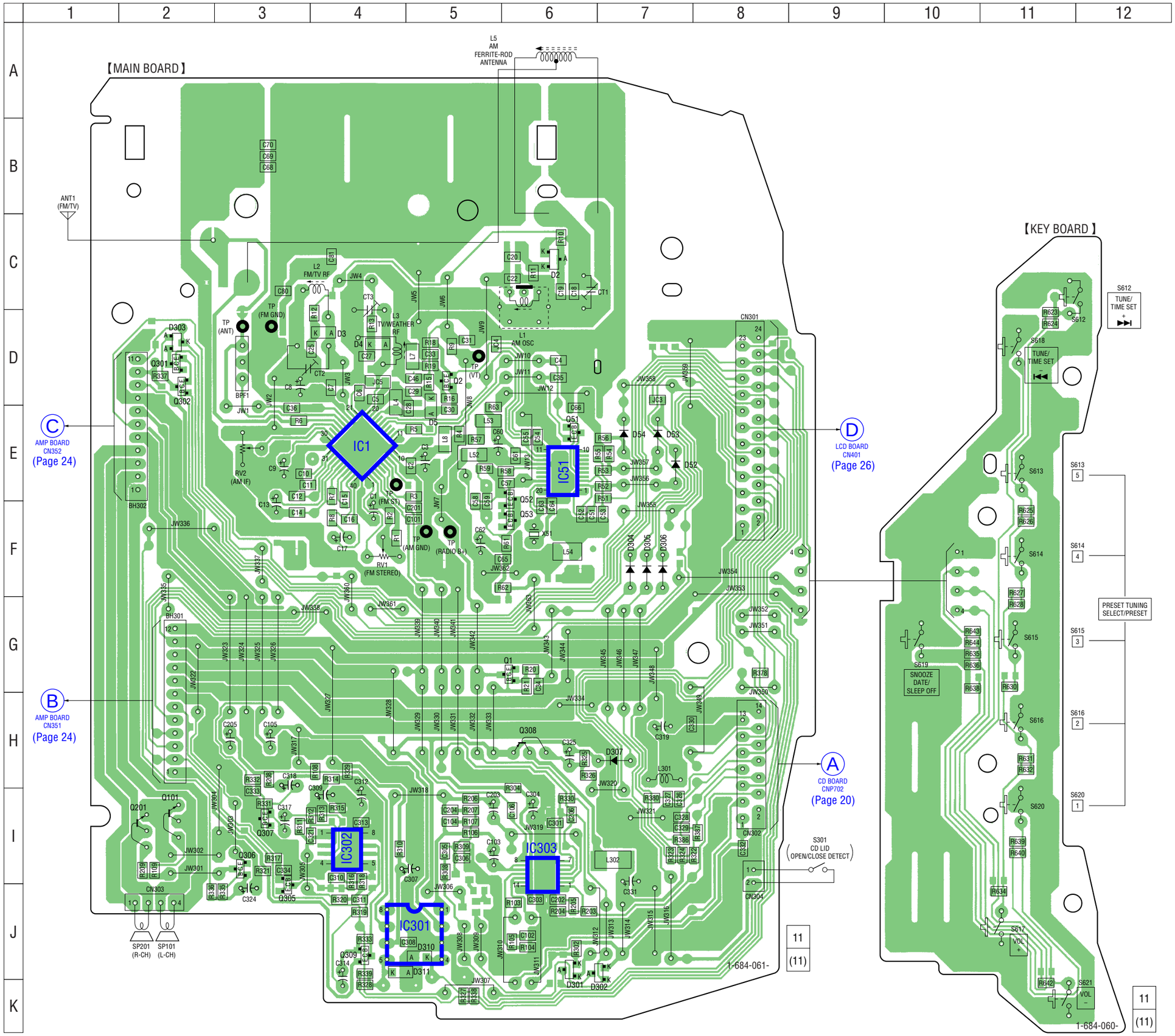


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
  [ ] : CD PLAY

5-7. PRINTED WIRING BOARDS – MAIN Section – • See page 18 for Circuit Boards Location.

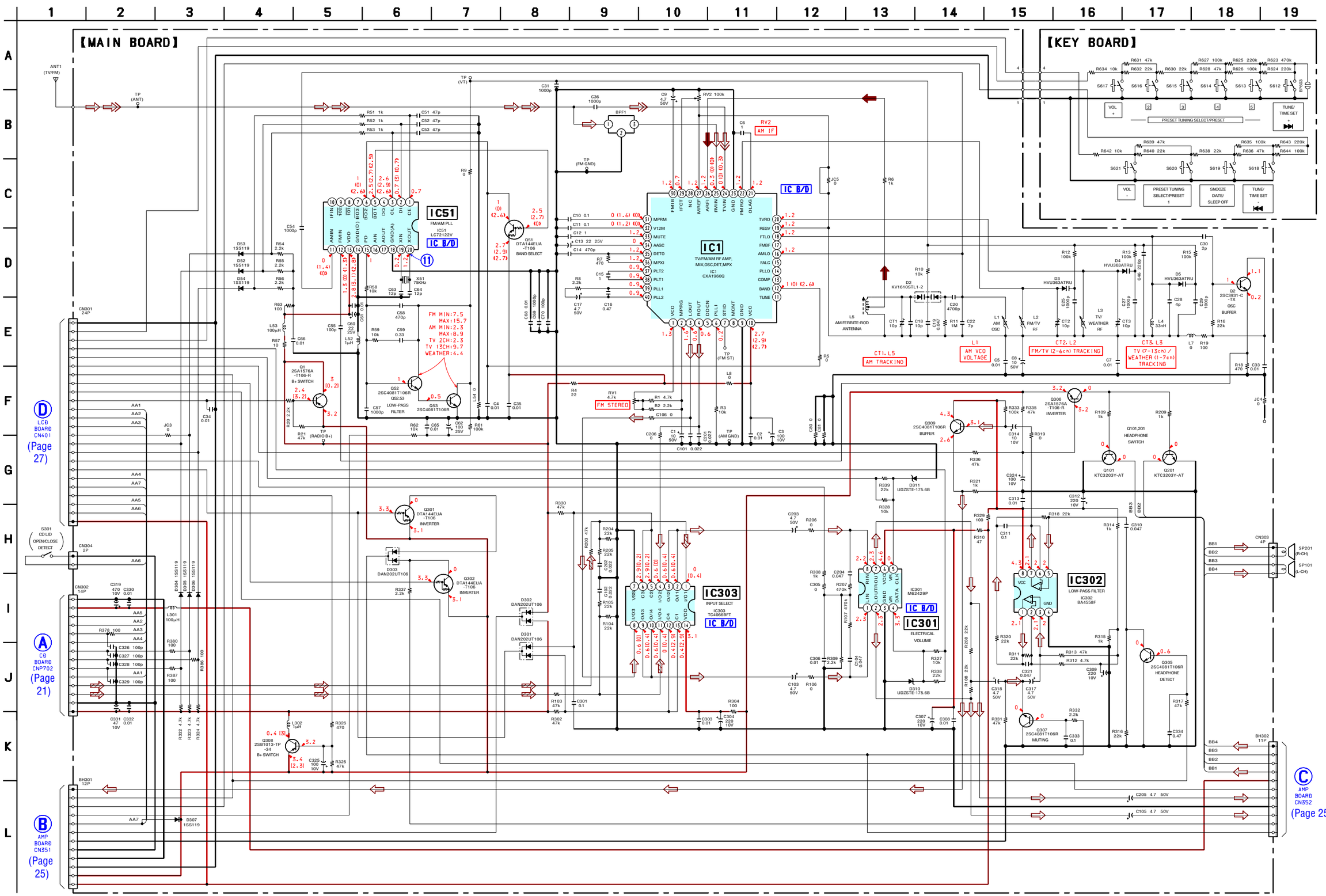
- **Semiconductor Location**

Ref. No.	Location
D2	C-6
D3	D-4
D4	D-4
D5	E-5
D52	E-7
D53	E-7
D54	E-7
D301	J-6
D302	J-7
D303	D-2
D304	F-7
D305	F-7
D306	F-7
D307	H-7
D310	J-5
D311	J-4
IC1	E-4
IC51	E-6
IC301	J-5
IC302	I-4
IC303	I-6
Q1	G-6
Q2	D-5
Q51	E-6
Q52	E-6
Q53	F-6
Q101	I-2
Q201	I-2
Q301	D-2
Q302	D-2
Q305	I-3
Q306	I-3
Q307	I-3
Q308	H-6
Q309	J-4



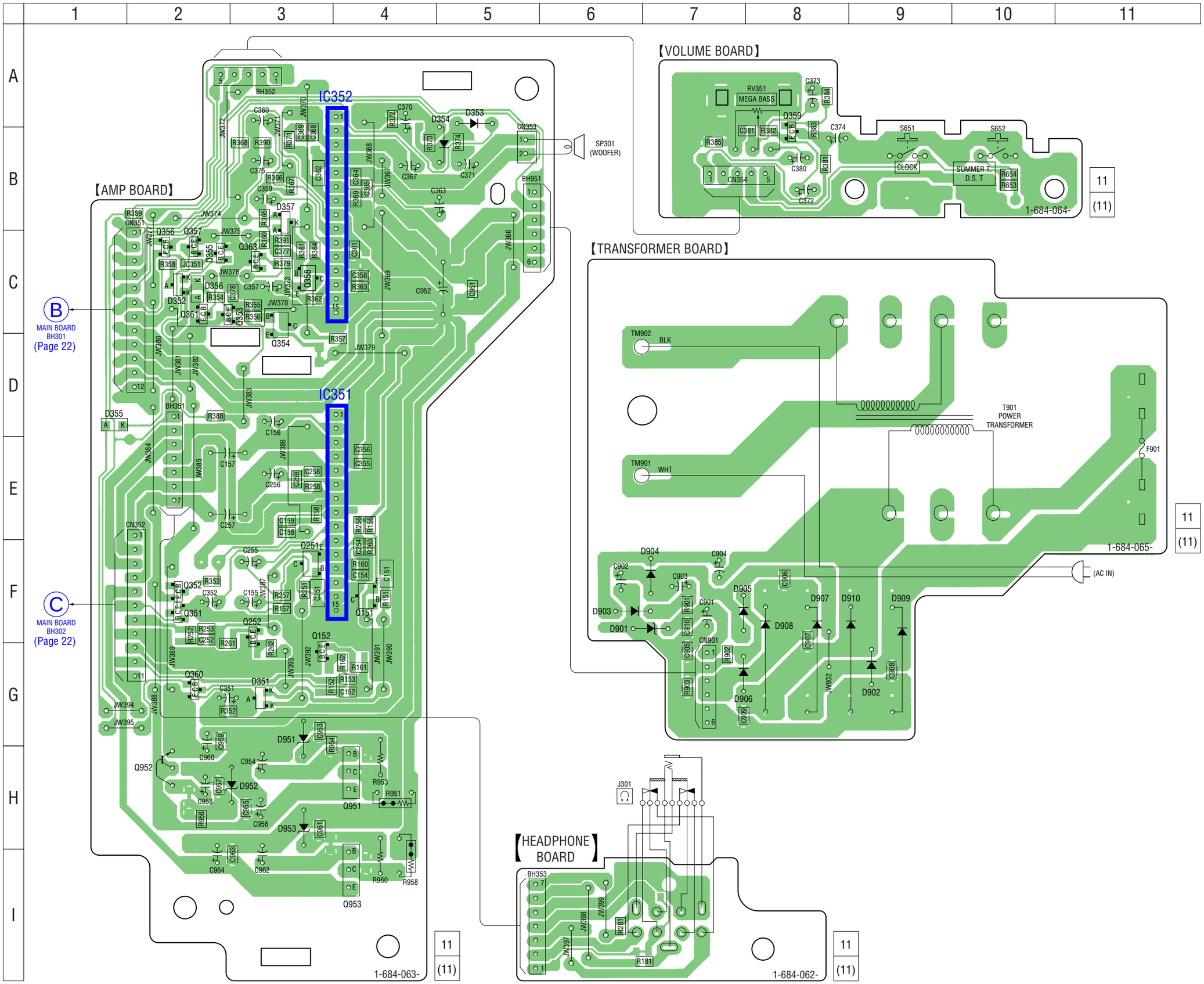
5-8. SCHEMATIC DIAGRAM – MAIN Section –

• See page 19 for Waveform. • See page 28 for IC Block Diagrams.



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM/TV (2 – 6 ch)
  ( ) : AM
  ⟨⟨ ⟩⟩ : TV (7 – 13 ch)/WEATHER (1 – 7 ch)
  [ ] : CD

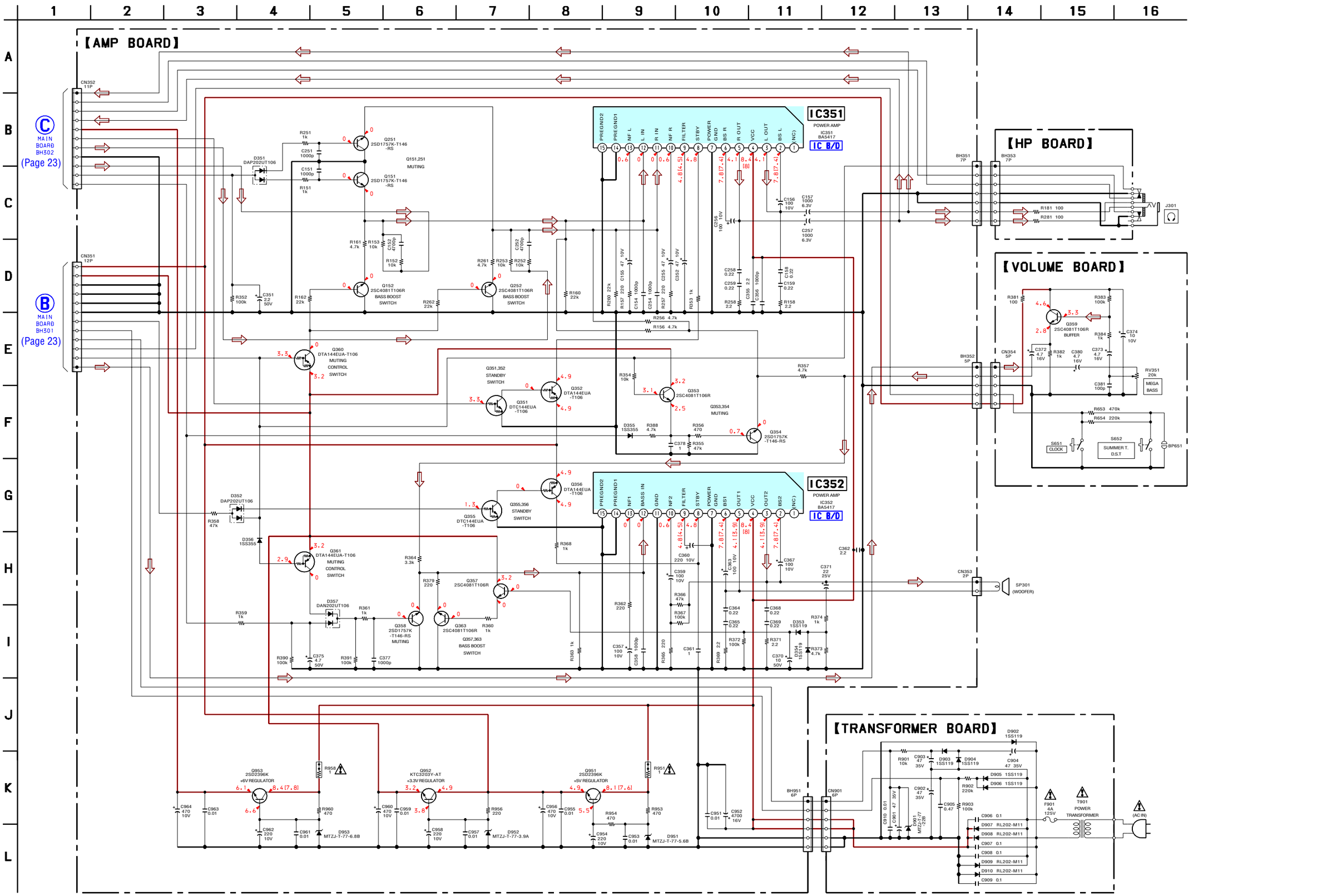
5-9. PRINTED WIRING BOARDS – POWER Section – • See page 18 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D351	G-3
D352	C-2
D353	A-5
D354	B-5
D355	D-1
D356	C-2
D357	B-3
D901	F-7
D902	G-9
D903	F-6
D904	F-7
D905	F-7
D906	G-7
D907	F-8
D908	F-8
D909	F-9
D910	F-9
D951	G-3
D952	H-3
D953	H-3
IC351	E-4
IC352	B-4
Q151	F-4
Q152	G-3
Q251	F-3
Q252	F-3
Q351	F-2
Q352	F-2
Q353	C-2
Q354	C-3
Q355	C-2
Q356	C-2
Q357	C-2
Q358	C-3
Q359	B-8
Q360	G-2
Q361	C-2
Q363	C-3
Q951	H-4
Q952	H-2
Q953	I-4

5-10. SCHEMATIC DIAGRAM – POWER Section – • See page 28 for IC Block Diagrams.



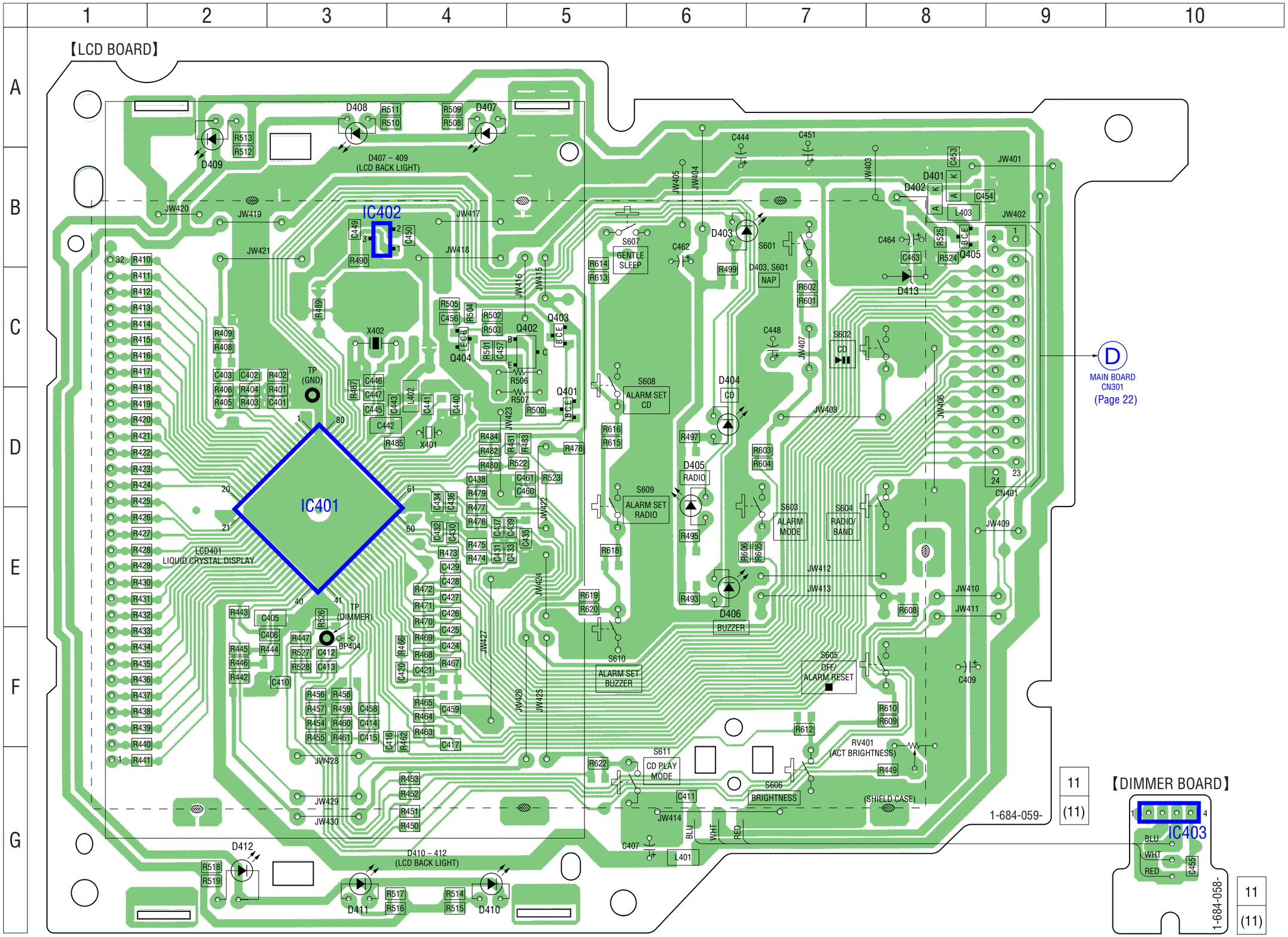
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  [ ] : CD

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-11. PRINTED WIRING BOARDS – PANEL Section – • See page 18 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D401	B-8
D402	B-8
D403	B-6
D404	D-6
D405	D-6
D406	E-6
D407	A-4
D408	A-3
D409	A-2
D410	G-4
D411	G-3
D412	G-2
D413	C-8
IC401	E-3
IC402	B-3
IC403	G-10
Q401	D-5
Q402	C-5
Q403	C-5
Q404	C-4
Q405	B-8



5-12. SCHEMATIC DIAGRAM – PANEL Section –

• See page 19 for Waveforms.

【LCD BOARD】

【DIMMER BOARD】

IC403 BRIGHTNESS SENSOR IC403 TPS818 — IC B/D

IC401 SYSTEM CONTROLLER IC401 μPD789477GC-A17-8BT

LCD401 LIQUID CRYSTAL DISPLAY

IC402 RESET SIGNAL GENERATOR IC402 XC61CN2002MR

D407-412 (LCD BACK LIGHT)

*1	BRIGHTNESS		
	MAX	MID	MIN
IC401 PIN67 Q401 B	0	3.4	3.4
Q401 C	3.3	0	0
Q402 B	0.7	0	0
Q402 C	0.1	2	2.9
IC401 PIN68 Q403 B	3.4	0	3.4
Q403 C	0	3.3	0
Q404 B	0	0.8	0
Q403 C	0.1	0.1	2.9

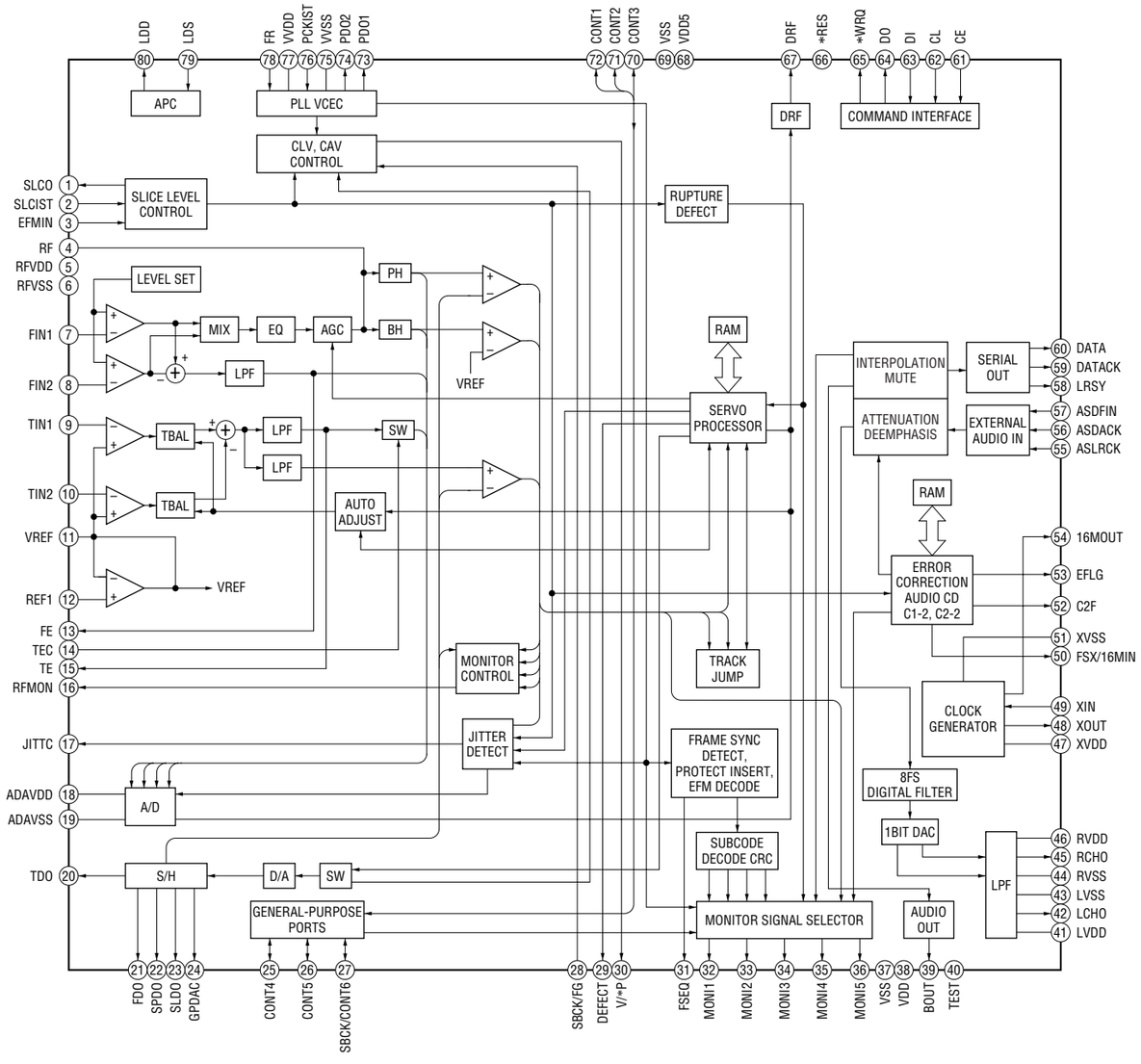
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  [ ] : CD

ICF-CD863V

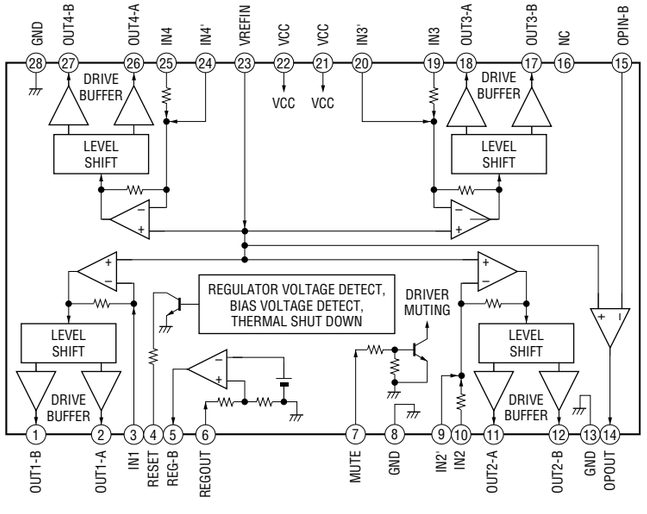
- **IC Block Diagrams**

– CD Board –

IC701 LC78645NE-U

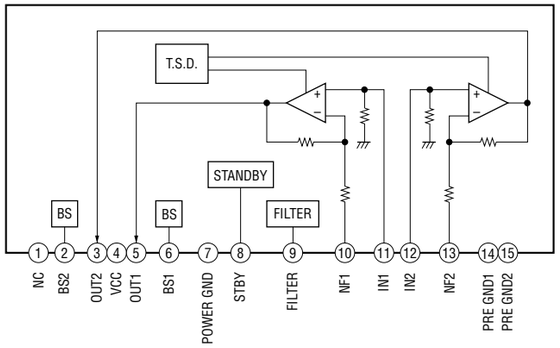


IC702 BA6998FP-E2



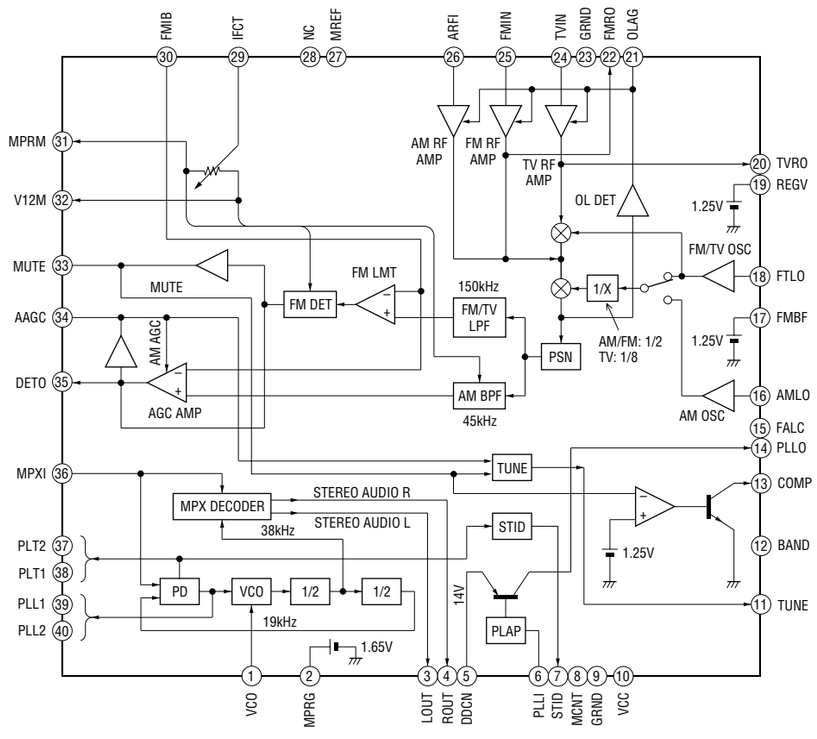
– AMP Board –

IC351, 352 BA5417

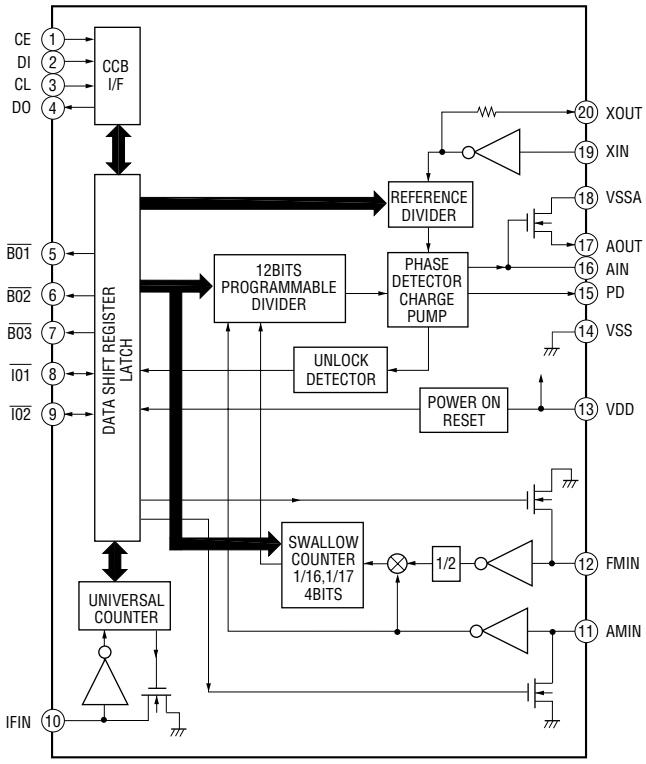


– MAIN Board –

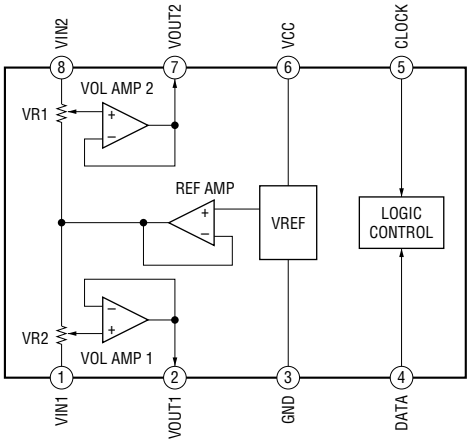
IC1 CXA1960Q



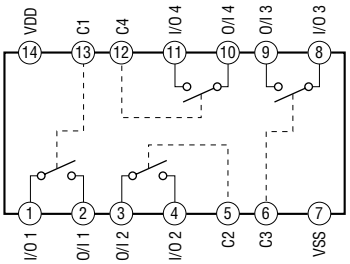
IC51 LC72122V-TLM



IC301 M62429P

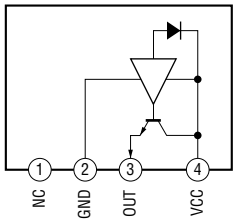


IC303 TC4066BFT (EL, N)



– DIMMER Board –

IC403 TPS818



5-13. IC PIN FUNCTION DESCRIPTION

• LCD BOARD IC401 μPD789477GC-A17-8BT (SYSTEM CONTROLLER)

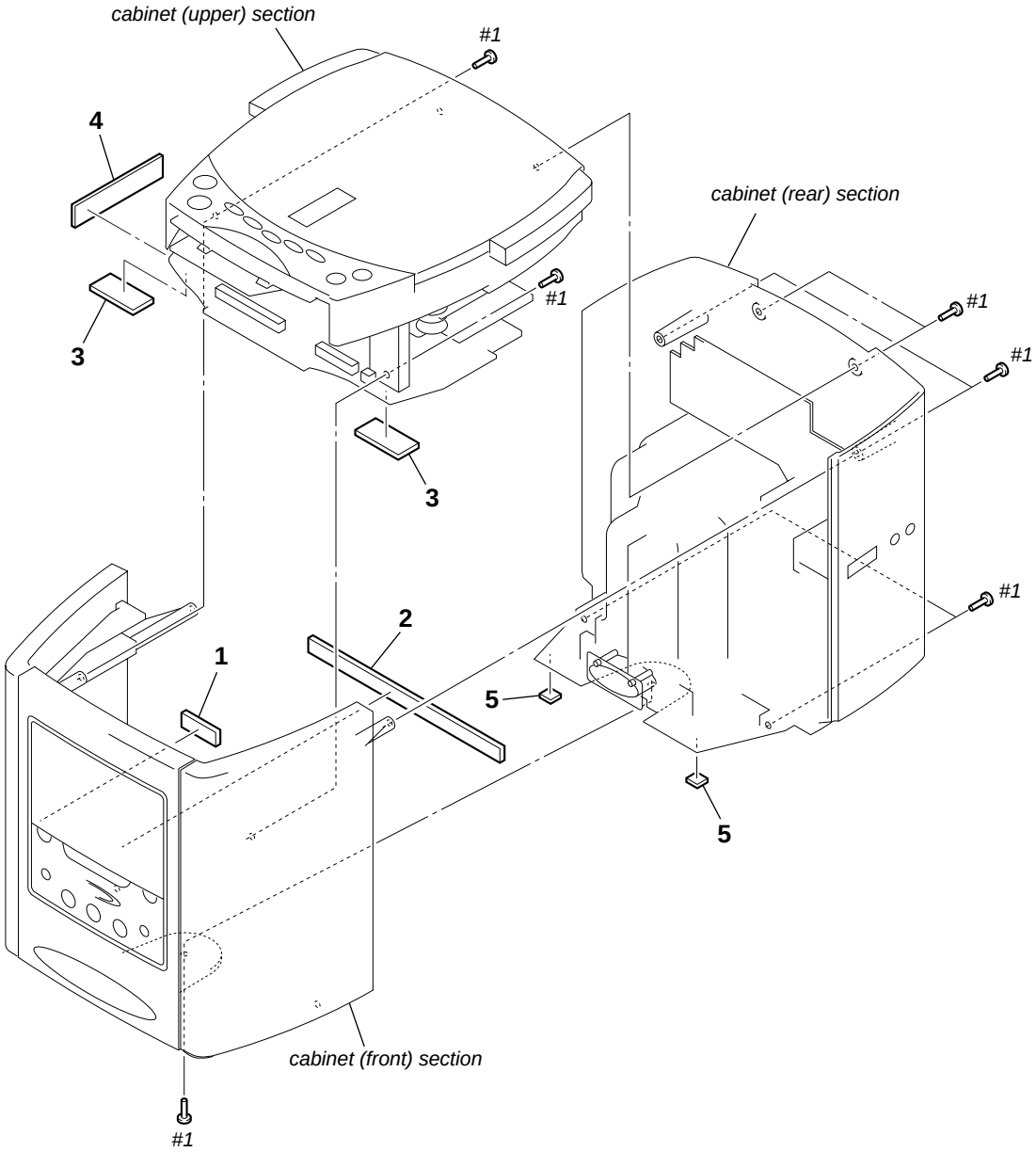
Pin No.	Pin Name	I/O	Description
1, 2	NC	—	Not used
3 to 5	VLC0 to VLC2	—	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
6 to 9	COM0 to COM3	O	Common drive signal output to the liquid crystal display
10 to 37	SEG0 to SEG27	O	Segment drive signal output to the liquid crystal display
38	AVDD	—	Power supply terminal (+3.3V) (analog system)
39	CD OPEN	I	CD lid open/close detection signal input terminal "L": CD lid is closed, "H": CD lid is opened
40	VERSION	I	Destination setting terminal Not used
41	FSEQ	I	Synchronizing signal detection signal input from the digital signal processor
42	AUTO DIMMER	I	Auto Dimmer signal input
43 to 46	KEY0 to KEY3	I	Key input terminal (A/D input)
47	AVSS	—	Ground terminal (analog system)
48	$\overline{\text{CD ON}}$	O	Power on/off control signal output for the CD +3.3V power supply "L": CD power on
49	AC IN	I	Power failure detection signal input terminal "L": power failure, "H": power on
50	WRQ	I	Interruption detection signal input from the digital signal processor
51	BUZZERMUTE	O	Buzzer sound muting on/off control signal output "L": muting on
52	BUZZER	O	Buzzer sound drive signal output
53	CE CD/RADIO	O	Chip enable signal output to the digital signal processor and FM/AM PLL
54	DATA CD/RADIO	O	Serial data output to the digital signal processor and FM/AM PLL
55	CLK CD/RADIO	O	Serial data transfer clock signal output to the digital signal processor and FM/AM PLL
56	DATA-IN CD	I	Serial data input from the digital signal processor
57	DRF	I	Focus on/off detection signal input from the digital signal processor
58	XRST	O	Reset signal output to the digital signal processor "L": reset
59	$\overline{\text{RADIO ON}}$	O	Power on/off control signal output for the radio +3.3V power supply "L": radio power on
60	POWER ON	O	Power amplifier on/off control signal output "L": standby mode, "H": power amplifier on
61	$\overline{\text{A MUT}}$	O	Audio line muting on/off control signal output "L": muting on
62	HP SW	I	Connection detection signal input of the headphone jack "L": headphone connected, "H": no headphone
63	$\overline{\text{HP ON}}$	O	Headphone on/off control signal output "L": headphone on
64	VR CLK	O	Volume clock signal output
65	VR DATA	O	Volume data output
66	NC	—	Not used
67	BACK LIGHT 0	O	LED drive signal output of the liquid crystal display back light "L": Back light High
68	BACK LIGHT 1	O	LED drive signal output of the liquid crystal display back light "L": Back light Mid
69	IC	—	Internal connection terminal
70	XT1	I	Sub system clock input terminal (32.768 kHz)
71	XT2	O	Sub system clock output terminal (32.768 kHz)
72	VDD0	—	Power supply terminal (+3.3V)
73	VSS0	—	Ground terminal
74	X1	I	Main system clock input terminal (4.19 MHz)
75	X2	O	Main system clock output terminal (4.19 MHz)
76	$\overline{\text{RESET}}$	I	System reset signal input "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
77	NAP LED	O	LED drive signal output of the NAP "L": LED on
78	CD LED	O	LED drive signal output of the CD "L": LED on
79	RADIO LED	O	LED drive signal output of the RADIO "L": LED on
80	BUZZER LED	O	LED drive signal output of the BUZZER "L": LED on

SECTION 6
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories are given in the last of the electrical parts list.

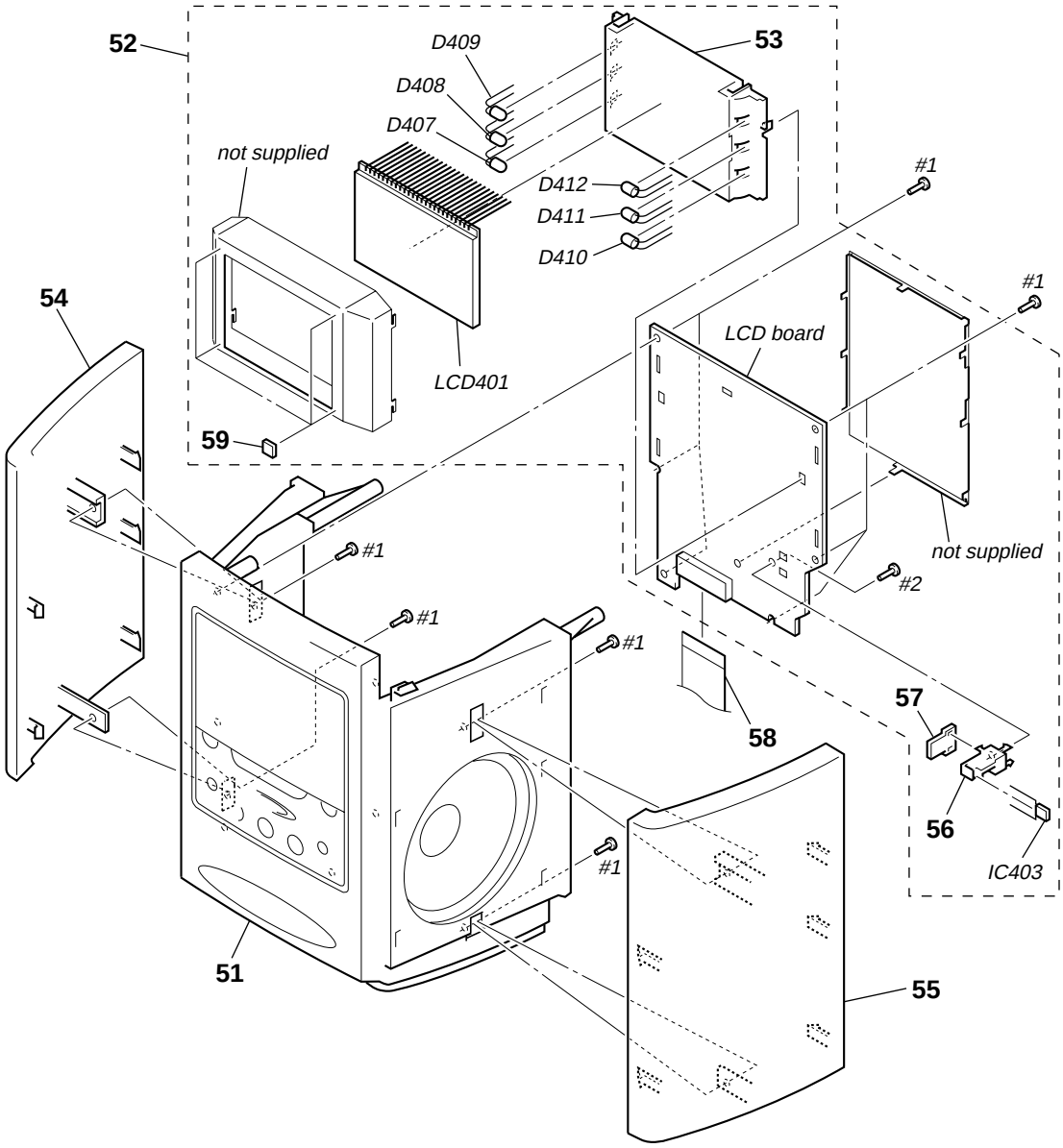
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	3-242-643-01	CUSHION (A)	
2	3-242-644-01	CUSHION (B)	
3	3-242-645-01	CUSHION (PWB)	
4	3-243-404-01	CUSHION (MAIN)	
5	3-368-852-01	FOOT	
#1	7-685-647-79	SCREW +BV 3X10, TYPE2, IT-3	

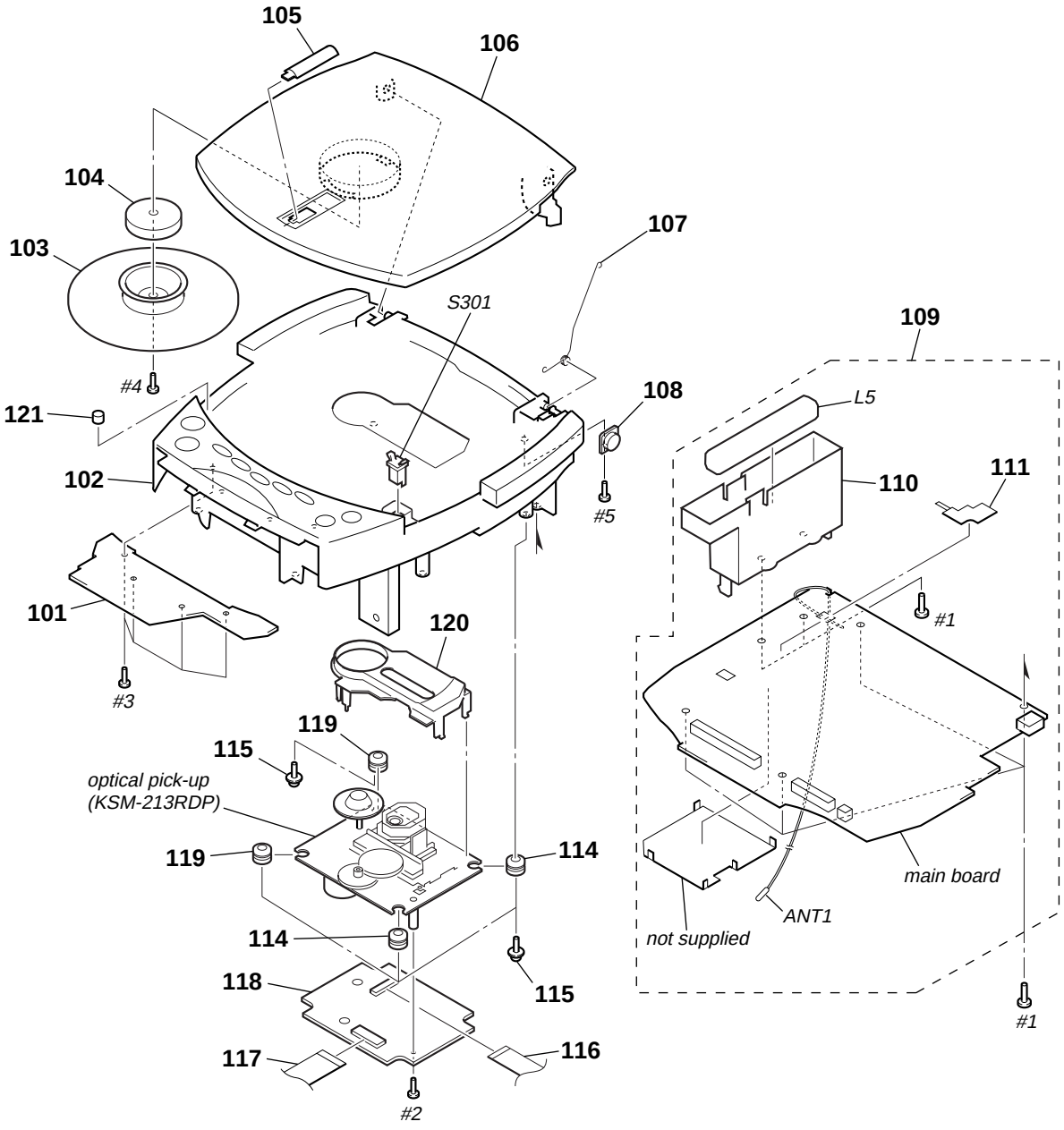
6-2. CABINET (FRONT) SECTION



Ref. No.	Part No.	Description	Remark
51	X-3382-305-1	CABINET (FRONT) ASSY	
* 52	A-3021-769-A	LCD BOARD, COMPLETE	
53	3-238-600-01	HOLDER (LCD)	
54	3-239-097-01	PANEL (SP) (,L)	
55	3-239-098-01	PANEL (SP) (,R)	
56	3-238-601-01	HOLDER (AUTO DIMMER)	
* 57	1-684-058-11	DIMMER BOARD	
58	1-823-839-11	CABLE, FLEXIBLE FLAT (24 CORE)	
59	3-243-253-01	CUSHION (A)	
D407	6-500-165-11	DIODE SLI-343YY3FW-ST (LCD BACKLIGHT)	

Ref. No.	Part No.	Description	Remark
D408	6-500-165-11	DIODE SLI-343YY3FW-ST (LCD BACKLIGHT)	
D409	6-500-165-11	DIODE SLI-343YY3FW-ST (LCD BACKLIGHT)	
D410	6-500-165-11	DIODE SLI-343YY3FW-ST (LCD BACKLIGHT)	
D411	6-500-165-11	DIODE SLI-343YY3FW-ST (LCD BACKLIGHT)	
D412	6-500-165-11	DIODE SLI-343YY3FW-ST (LCD BACKLIGHT)	
IC403	6-600-069-01	IC TPS818 (BRIGHTNES SENSOR)	
LCD401	1-804-647-21	DISPLAY PANEL, LIQUID CRYSTAL	
#1	7-685-647-79	SCREW +BV 3X10, TYPE2, IT-3	
#2	7-685-853-04	SCREW +BVTT 2X6 (S)	

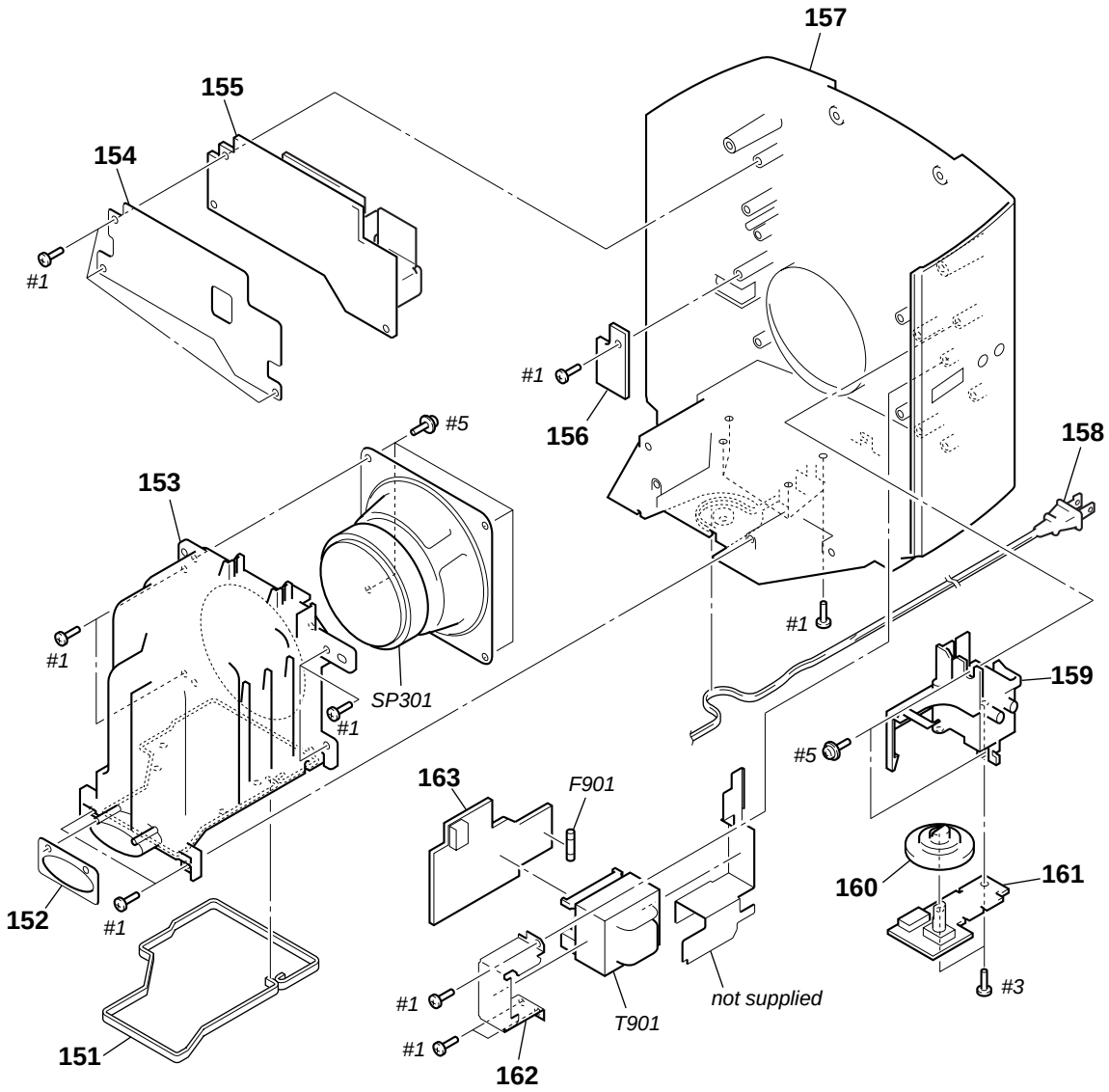
6-3. CABINET (UPPER) SECTION



Ref. No.	Part No.	Description	Remark
* 101	1-684-060-11	KEY BOARD	
102	X-3382-306-1	CABINET (UPPER) ASSY	
103	3-019-395-01	PLATE, CHUCKING	
104	1-452-899-11	MAGNET	
105	3-238-591-01	WINDOW (CD)	
106	X-3382-304-1	LID ASSY, CD	
107	3-238-608-01	SPRING (CD)	
108	3-922-112-31	DAMPER	
* 109	A-3021-770-A	MAIN BOARD, COMPLETE	
110	3-238-166-01	HOLDER (ANTENNA)	
111	3-243-249-01	SHEET (MAIN)	
114	3-046-853-01	RUBBER, VIBRATION PROOF (RED)	
115	3-921-725-01	SCREW (2.6X10), +PWH	
116	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)	

Ref. No.	Part No.	Description	Remark
117	1-824-018-11	CABLE, FLEXIBLE FLAT (14 CORE)	
* 118	A-3347-089-A	CD BOARD, COMPLETE	
119	3-046-853-11	RUBBER, VIBRATION PROOF (GREEN)	
120	3-923-736-01	COVER, CD	
121	3-243-405-01	CUSHION (LID)	
ANT1	1-501-907-71	ANTENNA, FM WIRE	
L5	1-428-938-11	COIL, FERRITE-ROD ANTENNA (MW)	
S301	1-771-429-11	SWITCH, PUSH (1 KEY) (CD LID OPEN/CLOSE DETECT)	
#1	7-685-647-79	SCREW +BV 3X10, TYPE2, IT-3	
#2	7-685-853-04	SCREW +BVTT 2X6 (S)	
#3	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#5	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	

6-4. CABINET (REAR) SECTION

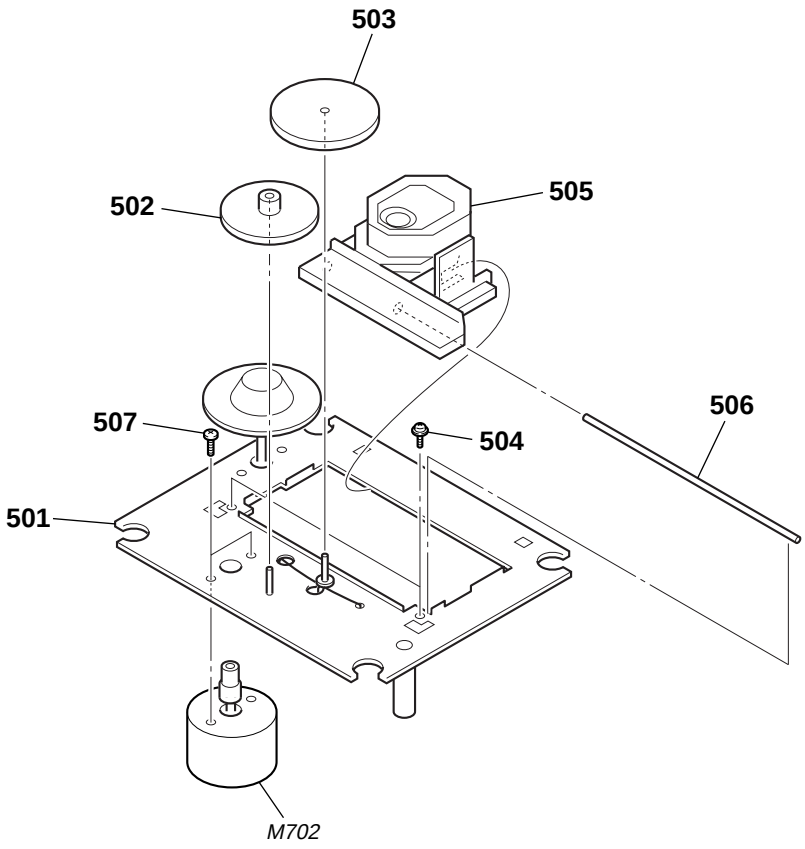


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
151	3-238-609-01	RUBBER	
152	3-241-797-01	BOX (SP), CUSHION	
153	3-238-589-01	BOX (SP)	
154	3-242-646-01	SHEET (POWER)	
* 155	A-3178-325-A	AMP BOARD, COMPLETE	
* 156	1-684-062-11	HEADPHONE BOARD	
157	3-238-584-01	CABINET (REAR)	
⚠158	1-757-636-31	CORD, POWER	
159	3-238-599-01	BUTTON (CLOCK)	
160	3-227-332-11	KNOB (VOL)	

Ref. No.	Part No.	Description	Remark
* 161	1-684-064-11	VOLUME BOARD	
162	3-238-606-01	BRACKET (TRANSFORMER)	
* 163	1-684-065-11	TRANSFORMER BOARD	
⚠F901	1-533-452-11	FUSE, GLASS TUBE (DIA. 5) (4A/125V)	
SP301	1-825-077-11	SPEAKER (8.2cm) (WOOFER)	
⚠T901	1-435-595-11	TRANSFORMER, POWER	
#1	7-685-647-79	SCREW +BV 3X10, TYPE2, IT-3	
#3	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#5	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	

6-5. OPTICAL BLOCK (KSM-213RDP)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
501	X-2162-707-1	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M701)	
* 502	2-647-408-02	GEAR (B)	
* 503	2-169-065-01	GEAR (A)	
504	2-169-388-01	TAPPING (M2), +PWB	
⚠505	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)	
506	2-626-908-01	SHAFT, SLED	
507	3-713-786-51	SCREW (M2X3)	
M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)	

SECTION 7
ELECTRICAL PARTS LIST

AMP

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA. . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. .
  uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3178-325-A	AMP BOARD, COMPLETE			
		**********			
	7-685-146-11	SCREW +P 3X8 TYPE2 NON-SLIT			
		< CAPACITOR >			
C151	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C152	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C154	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C155	1-107-909-11	ELECT	47uF	20%	10V
C156	1-128-526-11	ELECT	100uF	20%	10V
C157	1-126-168-11	ELECT	1000uF	20%	6.3V
C158	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C159	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C251	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C252	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C254	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C255	1-107-909-11	ELECT	47uF	20%	10V
C256	1-128-526-11	ELECT	100uF	20%	10V
C257	1-126-168-11	ELECT	1000uF	20%	6.3V
C258	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C259	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C351	1-107-903-11	ELECT	2.2uF	20%	50V
C352	1-107-909-11	ELECT	47uF	20%	10V
C355	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C356	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C357	1-128-526-11	ELECT	100uF	20%	10V
C358	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C359	1-128-526-11	ELECT	100uF	20%	10V
C360	1-107-889-11	ELECT	220uF	20%	10V
C361	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C362	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C363	1-128-526-11	ELECT	100uF	20%	10V
C364	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C365	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C367	1-128-526-11	ELECT	100uF	20%	10V
C368	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C369	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C370	1-107-906-11	ELECT	10uF	20%	50V
C371	1-107-907-11	ELECT	22uF	20%	25V
C375	1-107-905-11	ELECT	4.7uF	20%	50V
C377	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C378	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C951	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C952	1-107-886-11	ELECT	4700uF	20%	16V
C953	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C954	1-107-889-11	ELECT	220uF	20%	10V
C955	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C956	1-104-652-11	ELECT	470uF	20%	10V
C957	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C958	1-107-889-11	ELECT	220uF	20%	10V
C959	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C960	1-104-652-11	ELECT	470uF	20%	10V
C961	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C962	1-107-889-11	ELECT	220uF	20%	10V
C963	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C964	1-104-652-11	ELECT	470uF	20%	10V
		< CONNECTOR >			
* CN351	1-785-678-11	PIN, CONNECTOR (PC BOARD) 12P			
* CN352	1-785-677-11	PIN, CONNECTOR (PC BOARD) 11P			
* CN353	1-785-654-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D351	8-719-941-09	DIODE DAP202UT106			
D352	8-719-941-09	DIODE DAP202UT106			
D353	8-719-911-19	DIODE 1SS119-25TD			
D354	8-719-911-19	DIODE 1SS119-25TD			
D355	8-719-988-61	DIODE 1SS355TE-17			
D356	8-719-988-61	DIODE 1SS355TE-17			
D357	8-719-941-86	DIODE DAN202UT106			
D951	8-719-109-89	DIODE MTZJ-T-77-5.6B			
D952	8-719-983-15	DIODE MTZJ-T-77-3.9A			
D953	8-719-109-97	DIODE MTZJ-T-77-6.8B			
		< IC >			
IC351	8-759-426-51	IC BA5417			
IC352	8-759-426-51	IC BA5417			
		< RESISTOR >			
JC351	1-216-864-11	METAL CHIP	0	5%	1/16W
		< TRANSISTOR >			
Q151	8-729-922-87	TRANSISTOR	2SD1757K-T146-RS		
Q152	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q251	8-729-922-87	TRANSISTOR	2SD1757K-T146-RS		
Q252	8-729-905-35	TRANSISTOR	2SC4081T106R		

AMP CD

Ref. No.	Part No.	Description			Remark
Q351	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q352	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q353	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q354	8-729-922-87	TRANSISTOR	2SD1757K-T146-RS		
Q355	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q356	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q357	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q358	8-729-922-87	TRANSISTOR	2SD1757K-T146-RS		
Q360	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q361	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q363	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q951	8-729-021-82	TRANSISTOR	2SD2396K		
Q952	8-729-212-02	TRANSISTOR	KTC3203Y-AT		
Q953	8-729-021-82	TRANSISTOR	2SD2396K		
		< RESISTOR >			
R151	1-216-821-11	METAL CHIP	1K	5%	1/16W
R152	1-216-833-11	METAL CHIP	10K	5%	1/16W
R153	1-216-833-11	METAL CHIP	10K	5%	1/16W
R156	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R157	1-216-813-11	METAL CHIP	220	5%	1/16W
R158	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R160	1-216-837-11	METAL CHIP	22K	5%	1/16W
R161	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R162	1-216-837-11	METAL CHIP	22K	5%	1/16W
R251	1-216-821-11	METAL CHIP	1K	5%	1/16W
R252	1-216-833-11	METAL CHIP	10K	5%	1/16W
R253	1-216-833-11	METAL CHIP	10K	5%	1/16W
R256	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R257	1-216-813-11	METAL CHIP	220	5%	1/16W
R258	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R260	1-216-837-11	METAL CHIP	22K	5%	1/16W
R261	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R262	1-216-837-11	METAL CHIP	22K	5%	1/16W
R352	1-216-845-11	METAL CHIP	100K	5%	1/16W
R353	1-216-821-11	METAL CHIP	1K	5%	1/16W
R354	1-216-833-11	METAL CHIP	10K	5%	1/16W
R355	1-216-841-11	METAL CHIP	47K	5%	1/16W
R356	1-216-817-11	METAL CHIP	470	5%	1/16W
R357	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R358	1-216-841-11	METAL CHIP	47K	5%	1/16W
R359	1-216-821-11	METAL CHIP	1K	5%	1/16W
R360	1-216-821-11	METAL CHIP	1K	5%	1/16W
R361	1-216-821-11	METAL CHIP	1K	5%	1/16W
R362	1-216-813-11	METAL CHIP	220	5%	1/16W
R363	1-216-821-11	METAL CHIP	1K	5%	1/16W
R364	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R365	1-216-813-11	METAL CHIP	220	5%	1/16W
R366	1-216-841-11	METAL CHIP	47K	5%	1/16W
R367	1-216-845-11	METAL CHIP	100K	5%	1/16W
R368	1-216-821-11	METAL CHIP	1K	5%	1/16W
R369	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R371	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R372	1-216-845-11	METAL CHIP	100K	5%	1/16W
R373	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R374	1-216-821-11	METAL CHIP	1K	5%	1/16W
R379	1-216-813-11	METAL CHIP	220	5%	1/16W

Ref. No.	Part No.	Description			Remark
R388	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R390	1-216-845-11	METAL CHIP	100K	5%	1/16W
R391	1-216-845-11	METAL CHIP	100K	5%	1/16W
⚠R951	1-219-149-11	FUSIBLE	1	5%	1/4W F
R953	1-249-413-11	CARBON	470	5%	1/4W
R954	1-216-817-11	METAL CHIP	470	5%	1/16W
R956	1-216-813-11	METAL CHIP	220	5%	1/16W
⚠R958	1-219-149-11	FUSIBLE	1	5%	1/4W F
R960	1-249-413-11	CARBON	470	5%	1/4W
**********					
*	A-3347-089-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C702	1-126-947-11	ELECT	47uF	20%	10V
C703	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C704	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C705	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C706	1-126-960-11	ELECT	1uF	20%	50V
C707	1-115-156-11	CERAMIC CHIP	1uF		10V
C708	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C716	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C717	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C720	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C721	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C722	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C723	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C724	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C725	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C726	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C727	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C728	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C729	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C730	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C731	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C732	1-104-665-11	ELECT	100uF	20%	10V
C733	1-104-665-11	ELECT	100uF	20%	10V
C734	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C735	1-126-916-11	ELECT	1000uF	20%	6.3V
C736	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C738	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C739	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C740	1-126-935-11	ELECT	470uF	20%	10V
C741	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C742	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C743	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C744	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C745	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C746	1-104-665-11	ELECT	100uF	20%	10V
C747	1-104-665-11	ELECT	100uF	20%	10V
C750	1-104-665-11	ELECT	100uF	20%	10V
C751	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C754	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C755	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

CD **DIMMER** **HEADPHONE** **KEY**

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNP701	1-770-168-11	CONNECTOR, FFC/FPC 16P			
* CNP701	1-779-466-11	CONNECTOR, FFC/FPC 16P			
CNP701	1-779-466-11	CONNECTOR, FFC (LIF (NON-ZIF)) 16P			
* CNP702	1-784-736-11	CONNECTOR, FFC 14P			
		< COIL >			
FB701	1-469-701-21	INDUCTOR	0uH		
		< IC >			
IC701	6-701-617-01	IC LC78645NE-U			
IC702	8-759-591-62	IC BA6998FP-E2			
		< RESISTOR >			
JC701	1-216-864-11	METAL CHIP	0	5%	1/16W
JC702	1-216-864-11	METAL CHIP	0	5%	1/16W
JC703	1-216-864-11	METAL CHIP	0	5%	1/16W
JC704	1-216-813-11	METAL CHIP	220	5%	1/16W
		< FERRITE BEAD >			
L706	1-414-445-11	FERRITE	0uH		
		< TRANSISTOR >			
Q701	8-729-054-57	TRANSISTOR	KTN2907AS-RTK		
		< RESISTOR >			
R701	1-216-841-11	METAL CHIP	47K	5%	1/16W
R702	1-216-835-11	METAL CHIP	15K	5%	1/16W
R703	1-216-835-11	METAL CHIP	15K	5%	1/16W
R704	1-216-835-11	METAL CHIP	15K	5%	1/16W
R705	1-216-835-11	METAL CHIP	15K	5%	1/16W
R706	1-216-841-11	METAL CHIP	47K	5%	1/16W
R707	1-216-797-11	METAL CHIP	10	5%	1/16W
R708	1-216-833-11	METAL CHIP	10K	5%	1/16W
R709	1-216-837-11	METAL CHIP	22K	5%	1/16W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R711	1-216-815-11	METAL CHIP	330	5%	1/16W
R712	1-216-809-11	METAL CHIP	100	5%	1/16W
R714	1-216-811-11	METAL CHIP	150	5%	1/16W
R715	1-216-811-11	METAL CHIP	150	5%	1/16W
R716	1-216-821-11	METAL CHIP	1K	5%	1/16W
R717	1-216-821-11	METAL CHIP	1K	5%	1/16W
R718	1-216-821-11	METAL CHIP	1K	5%	1/16W
R719	1-216-809-11	METAL CHIP	100	5%	1/16W
R720	1-216-809-11	METAL CHIP	100	5%	1/16W
R721	1-216-821-11	METAL CHIP	1K	5%	1/16W
R722	1-216-809-11	METAL CHIP	100	5%	1/16W
R723	1-216-809-11	METAL CHIP	100	5%	1/16W
R724	1-216-841-11	METAL CHIP	47K	5%	1/16W
R725	1-216-819-11	METAL CHIP	680	5%	1/16W
R726	1-216-819-11	METAL CHIP	680	5%	1/16W
R727	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R728	1-216-833-11	METAL CHIP	10K	5%	1/16W
R729	1-216-813-11	METAL CHIP	220	5%	1/16W
R730	1-216-821-11	METAL CHIP	1K	5%	1/16W
R731	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R741	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R743	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R744	1-216-845-11	METAL CHIP	100K	5%	1/16W
		< SWITCH >			
S701	1-571-936-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X701	1-795-173-21	VIBRATOR, CERAMIC (33.8688MHz)			
**********					
*	1-684-058-11	DIMMER BOARD (included in LCD board)			
		**********			
		< CAPACITOR >			
C455	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< IC >			
IC403	6-600-069-01	IC TPS818 (BRIGHTNESS SENSOR)			
**********					
*	1-684-062-11	HEADPHONE BOARD			
		**********			
		< JACK >			
J301	1-794-016-11	JACK (🎧)			
		< RESISTOR >			
R181	1-216-809-11	METAL CHIP	100	5%	1/16W
R281	1-216-809-11	METAL CHIP	100	5%	1/16W
**********					
*	1-684-060-11	KEY BOARD			
		**********			
		< RESISTOR >			
R623	1-216-853-11	METAL CHIP	470K	5%	1/16W
R624	1-216-849-11	METAL CHIP	220K	5%	1/16W
R625	1-216-849-11	METAL CHIP	220K	5%	1/16W
R626	1-216-845-11	METAL CHIP	100K	5%	1/16W
R627	1-216-845-11	METAL CHIP	100K	5%	1/16W
R628	1-216-841-11	METAL CHIP	47K	5%	1/16W
R630	1-216-837-11	METAL CHIP	22K	5%	1/16W
R631	1-216-841-11	METAL CHIP	47K	5%	1/16W
R632	1-216-837-11	METAL CHIP	22K	5%	1/16W
R634	1-216-833-11	METAL CHIP	10K	5%	1/16W
R635	1-216-845-11	METAL CHIP	100K	5%	1/16W
R636	1-216-841-11	METAL CHIP	47K	5%	1/16W
R638	1-216-837-11	METAL CHIP	22K	5%	1/16W
R639	1-216-841-11	METAL CHIP	47K	5%	1/16W
R640	1-216-837-11	METAL CHIP	22K	5%	1/16W
R642	1-216-833-11	METAL CHIP	10K	5%	1/16W
R643	1-216-849-11	METAL CHIP	220K	5%	1/16W
R644	1-216-845-11	METAL CHIP	100K	5%	1/16W

KEY LCD

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S612	1-786-050-21	SWITCH, KEY BOARD (TUNE/TIME SET +, ▶▶I)	
S613	1-786-050-21	SWITCH, KEY BOARD (PRESET TUNING SELECT/PRESET 5)	
S614	1-786-050-21	SWITCH, KEY BOARD (PRESET TUNING SELECT/PRESET 4)	
S615	1-786-050-21	SWITCH, KEY BOARD (PRESET TUNING SELECT/PRESET 3)	
S616	1-786-050-21	SWITCH, KEY BOARD (PRESET TUNING SELECT/PRESET 2)	
S617	1-786-050-21	SWITCH, KEY BOARD (VOL +)	
S618	1-786-050-21	SWITCH, KEY BOARD (TUNE/TIME SET –, I◀◀)	
S619	1-786-050-21	SWITCH, KEY BOARD (SNOOZE DATE/SLEEP OFF)	
S620	1-786-050-21	SWITCH, KEY BOARD (PRESET TUNING SELECT/PRESET 1)	
S621	1-786-050-21	SWITCH, KEY BOARD (VOL –)	
**********			
*	A-3021-769-A	LCD BOARD, COMPLETE (includes DIMMER board)	
		**********	
	3-238-600-01	HOLDER (LCD)	
	3-238-601-01	HOLDER (AUTO DIMMER)	
	3-243-253-01	CUSHION (A)	
	7-685-853-04	SCREW +BVTT 2X6 (S)	
		< CAPACITOR >	
C401	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C402	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C403	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C405	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V	
C406	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C407	1-124-584-00	ELECT 100uF 20% 10V	
C409	1-124-589-11	ELECT 47uF 20% 16V	
C410	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C411	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V	
C412	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C413	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C414	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C415	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C416	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C417	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C420	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C421	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V	
C424	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C425	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C426	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C427	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C428	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C429	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V	
C430	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C431	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C432	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C433	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C434	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C435	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C436	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C437	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C438	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C439	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C440	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C441	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C442	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V	
C443	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C444	1-124-584-00	ELECT 100uF 20% 10V	
C445	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C446	1-162-923-11	CERAMIC CHIP 47PF 5% 50V	
C447	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C448	1-124-261-00	ELECT 10uF 20% 50V	
C449	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C450	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C451	1-126-518-11	ELECT 470uF 20% 4V	
C453	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C454	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C456	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V	
C457	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V	
C458	1-125-837-11	CERAMIC CHIP 1uF 10% 6.3V	
C459	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C460	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C461	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C462	1-124-584-00	ELECT 100uF 20% 10V	
C463	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C464	1-124-589-11	ELECT 47uF 20% 16V	
		< CONNECTOR >	
* CN401	1-784-746-11	CONNECTOR, FFC 24P	
		< DIODE >	
D401	8-719-988-61	DIODE 1SS355TE-17	
D402	8-719-988-61	DIODE 1SS355TE-17	
D403	8-719-053-58	LED SLR-342DUT32 (NAP)	
D404	6-500-040-01	LED TOL-31CSGAKAA-KS01 (CD)	
D405	6-500-040-01	LED TOL-31CSGAKAA-KS01 (RADIO)	
D406	6-500-040-01	LED TOL-31CSGAKAA-KS01 (BUZZER)	
D407	6-500-165-11	LED SLI-343YY3FW-ST (LCD BACKLIGHT)	
D408	6-500-165-11	LED SLI-343YY3FW-ST (LCD BACKLIGHT)	
D409	6-500-165-11	LED SLI-343YY3FW-ST (LCD BACKLIGHT)	
D410	6-500-165-11	LED SLI-343YY3FW-ST (LCD BACKLIGHT)	
D411	6-500-165-11	LED SLI-343YY3FW-ST (LCD BACKLIGHT)	
D412	6-500-165-11	LED SLI-343YY3FW-ST (LCD BACKLIGHT)	
D413	8-719-921-40	DIODE MTZJ-T-77-4.7A	
		< IC >	
IC401	6-801-836-01	IC uPD789477GC-A17-8BT	
IC402	8-759-682-21	IC XC61CN2002MR	
		< COIL/SHORT >	
L401	1-412-963-11	INDUCTOR 100uH	
L402	1-412-963-11	INDUCTOR 100uH	
L403	1-216-295-00	SHORT 0	
		< LIQUID CRYSTAL DISPLAY >	
LCD401	1-804-647-21	DISPLAY PANEL, LIQUID CRYSTAL	

LCD

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q401	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q402	8-729-141-75	TRANSISTOR	2SD596T1-DV345		
Q403	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q404	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q405	8-729-905-35	TRANSISTOR	2SC4081T106R		
		< RESISTOR >			
R401	1-216-841-11	METAL CHIP	47K	5%	1/16W
R402	1-216-837-11	METAL CHIP	22K	5%	1/16W
R403	1-216-841-11	METAL CHIP	47K	5%	1/16W
R404	1-216-837-11	METAL CHIP	22K	5%	1/16W
R405	1-216-841-11	METAL CHIP	47K	5%	1/16W
R406	1-216-837-11	METAL CHIP	22K	5%	1/16W
R408	1-216-833-11	METAL CHIP	10K	5%	1/16W
R409	1-216-833-11	METAL CHIP	10K	5%	1/16W
R410	1-216-821-11	METAL CHIP	1K	5%	1/16W
R411	1-216-821-11	METAL CHIP	1K	5%	1/16W
R412	1-216-821-11	METAL CHIP	1K	5%	1/16W
R413	1-216-821-11	METAL CHIP	1K	5%	1/16W
R414	1-216-821-11	METAL CHIP	1K	5%	1/16W
R415	1-216-821-11	METAL CHIP	1K	5%	1/16W
R416	1-216-821-11	METAL CHIP	1K	5%	1/16W
R417	1-216-821-11	METAL CHIP	1K	5%	1/16W
R418	1-216-821-11	METAL CHIP	1K	5%	1/16W
R419	1-216-821-11	METAL CHIP	1K	5%	1/16W
R420	1-216-821-11	METAL CHIP	1K	5%	1/16W
R421	1-216-821-11	METAL CHIP	1K	5%	1/16W
R422	1-216-821-11	METAL CHIP	1K	5%	1/16W
R423	1-216-821-11	METAL CHIP	1K	5%	1/16W
R424	1-216-821-11	METAL CHIP	1K	5%	1/16W
R425	1-216-821-11	METAL CHIP	1K	5%	1/16W
R426	1-216-821-11	METAL CHIP	1K	5%	1/16W
R427	1-216-821-11	METAL CHIP	1K	5%	1/16W
R428	1-216-821-11	METAL CHIP	1K	5%	1/16W
R429	1-216-821-11	METAL CHIP	1K	5%	1/16W
R430	1-216-821-11	METAL CHIP	1K	5%	1/16W
R431	1-216-821-11	METAL CHIP	1K	5%	1/16W
R432	1-216-821-11	METAL CHIP	1K	5%	1/16W
R433	1-216-821-11	METAL CHIP	1K	5%	1/16W
R434	1-216-821-11	METAL CHIP	1K	5%	1/16W
R435	1-216-821-11	METAL CHIP	1K	5%	1/16W
R436	1-216-821-11	METAL CHIP	1K	5%	1/16W
R437	1-216-821-11	METAL CHIP	1K	5%	1/16W
R438	1-216-821-11	METAL CHIP	1K	5%	1/16W
R439	1-216-821-11	METAL CHIP	1K	5%	1/16W
R440	1-216-821-11	METAL CHIP	1K	5%	1/16W
R441	1-216-821-11	METAL CHIP	1K	5%	1/16W
R442	1-216-849-11	METAL CHIP	220K	5%	1/16W
R443	1-216-833-11	METAL CHIP	10K	5%	1/16W
R444	1-216-833-11	METAL CHIP	10K	5%	1/16W
R445	1-216-849-11	METAL CHIP	220K	5%	1/16W
R446	1-216-845-11	METAL CHIP	100K	5%	1/16W
R447	1-216-821-11	METAL CHIP	1K	5%	1/16W
R449	1-216-833-11	METAL CHIP	10K	5%	1/16W
R450	1-216-809-11	METAL CHIP	100	5%	1/16W
R451	1-216-809-11	METAL CHIP	100	5%	1/16W
R452	1-216-809-11	METAL CHIP	100	5%	1/16W
R453	1-216-809-11	METAL CHIP	100	5%	1/16W
R454	1-216-849-11	METAL CHIP	220K	5%	1/16W
R455	1-216-845-11	METAL CHIP	100K	5%	1/16W
R456	1-216-849-11	METAL CHIP	220K	5%	1/16W
R457	1-216-845-11	METAL CHIP	100K	5%	1/16W
R458	1-216-849-11	METAL CHIP	220K	5%	1/16W
R459	1-216-845-11	METAL CHIP	100K	5%	1/16W
R460	1-216-849-11	METAL CHIP	220K	5%	1/16W
R461	1-216-845-11	METAL CHIP	100K	5%	1/16W
R462	1-216-864-11	METAL CHIP	0	5%	1/16W
R463	1-216-821-11	METAL CHIP	1K	5%	1/16W
R464	1-216-821-11	METAL CHIP	1K	5%	1/16W
R465	1-216-821-11	METAL CHIP	1K	5%	1/16W
R466	1-216-821-11	METAL CHIP	1K	5%	1/16W
R467	1-216-833-11	METAL CHIP	10K	5%	1/16W
R468	1-216-805-11	METAL CHIP	47	5%	1/16W
R469	1-216-805-11	METAL CHIP	47	5%	1/16W
R470	1-216-805-11	METAL CHIP	47	5%	1/16W
R471	1-216-821-11	METAL CHIP	1K	5%	1/16W
R472	1-216-833-11	METAL CHIP	10K	5%	1/16W
R473	1-216-821-11	METAL CHIP	1K	5%	1/16W
R474	1-216-821-11	METAL CHIP	1K	5%	1/16W
R475	1-216-821-11	METAL CHIP	1K	5%	1/16W
R476	1-216-821-11	METAL CHIP	1K	5%	1/16W
R477	1-216-821-11	METAL CHIP	1K	5%	1/16W
R478	1-216-821-11	METAL CHIP	1K	5%	1/16W
R479	1-216-821-11	METAL CHIP	1K	5%	1/16W
R480	1-216-864-11	METAL CHIP	0	5%	1/16W
R481	1-216-841-11	METAL CHIP	47K	5%	1/16W
R482	1-216-864-11	METAL CHIP	0	5%	1/16W
R483	1-216-841-11	METAL CHIP	47K	5%	1/16W
R484	1-216-833-11	METAL CHIP	10K	5%	1/16W
R485	1-216-864-11	METAL CHIP	0	5%	1/16W
R487	1-216-864-11	METAL CHIP	0	5%	1/16W
R489	1-216-833-11	METAL CHIP	10K	5%	1/16W
R490	1-216-853-11	METAL CHIP	470K	5%	1/16W
R493	1-216-817-11	METAL CHIP	470	5%	1/16W
R495	1-216-817-11	METAL CHIP	470	5%	1/16W
R497	1-216-817-11	METAL CHIP	470	5%	1/16W
R499	1-216-817-11	METAL CHIP	470	5%	1/16W
R500	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R501	1-216-845-11	METAL CHIP	100K	5%	1/16W
R502	1-216-821-11	METAL CHIP	1K	5%	1/16W
R503	1-216-817-11	METAL CHIP	470	5%	1/16W
R504	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R505	1-216-845-11	METAL CHIP	100K	5%	1/16W
R506	1-247-807-31	CARBON	100	5%	1/4W
R507	1-247-807-31	CARBON	100	5%	1/4W
R508	1-216-813-11	METAL CHIP	220	5%	1/16W
R509	1-216-817-11	METAL CHIP	470	5%	1/16W
R510	1-216-813-11	METAL CHIP	220	5%	1/16W
R511	1-216-817-11	METAL CHIP	470	5%	1/16W
R512	1-216-813-11	METAL CHIP	220	5%	1/16W
R513	1-216-817-11	METAL CHIP	470	5%	1/16W
R514	1-216-813-11	METAL CHIP	220	5%	1/16W
R515	1-216-817-11	METAL CHIP	470	5%	1/16W

Ref. No.	Part No.	Description			Remark
R516	1-216-813-11	METAL CHIP	220	5%	1/16W
R517	1-216-817-11	METAL CHIP	470	5%	1/16W
R518	1-216-813-11	METAL CHIP	220	5%	1/16W
R519	1-216-817-11	METAL CHIP	470	5%	1/16W
R522	1-216-821-11	METAL CHIP	1K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R525	1-216-805-11	METAL CHIP	47	5%	1/16W
R526	1-216-857-11	METAL CHIP	1M	5%	1/16W
R527	1-216-857-11	METAL CHIP	1M	5%	1/16W
R528	1-216-853-11	METAL CHIP	470K	5%	1/16W
R601	1-216-853-11	METAL CHIP	470K	5%	1/16W
R602	1-216-849-11	METAL CHIP	220K	5%	1/16W
R603	1-216-849-11	METAL CHIP	220K	5%	1/16W
R604	1-216-845-11	METAL CHIP	100K	5%	1/16W
R605	1-216-845-11	METAL CHIP	100K	5%	1/16W
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W
R608	1-216-837-11	METAL CHIP	22K	5%	1/16W
R609	1-216-841-11	METAL CHIP	47K	5%	1/16W
R610	1-216-837-11	METAL CHIP	22K	5%	1/16W
R612	1-216-833-11	METAL CHIP	10K	5%	1/16W
R613	1-216-849-11	METAL CHIP	220K	5%	1/16W
R614	1-216-845-11	METAL CHIP	100K	5%	1/16W
R615	1-216-845-11	METAL CHIP	100K	5%	1/16W
R616	1-216-841-11	METAL CHIP	47K	5%	1/16W
R618	1-216-837-11	METAL CHIP	22K	5%	1/16W
R619	1-216-841-11	METAL CHIP	47K	5%	1/16W
R620	1-216-837-11	METAL CHIP	22K	5%	1/16W
R622	1-216-833-11	METAL CHIP	10K	5%	1/16W
		< VARIABLE RESISTOR >			
RV401	1-238-602-31	RES, ADJ, CARBON 47K			
		< SWITCH >			
S601	1-786-050-21	SWITCH, KEY BOARD (NAP)			
S602	1-786-050-21	SWITCH, KEY BOARD (CD ►II)			
S603	1-786-050-21	SWITCH, KEY BOARD (ALARM MODE)			
S604	1-786-050-21	SWITCH, KEY BOARD (RADIO/BAND)			
S605	1-786-050-21	SWITCH, KEY BOARD (OFF/ALARM RESET ■)			
S606	1-786-050-21	SWITCH, KEY BOARD (BRIGHTNESS)			
S607	1-786-050-21	SWITCH, KEY BOARD (GENTLE SLEEP)			
S608	1-786-050-21	SWITCH, KEY BOARD (ALARM SET CD)			
S609	1-786-050-21	SWITCH, KEY BOARD (ALARM SET RADIO)			
S610	1-786-050-21	SWITCH, KEY BOARD (ALARM SET BUZZER)			
S611	1-786-050-21	SWITCH, KEY BOARD (CD PLAY MODE)			
		< VIBRATOR >			
X401	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)			
X402	1-579-901-11	VIBRATOR, CERAMIC (4.19MHz)			
**********					
*	A-3021-770-A	MAIN BOARD, COMPLETE			
		**********			
	3-238-166-01	HOLDER (ANTENNA)			
	3-243-249-01	SHEET (MAIN)			
	7-685-647-79	SCREW +P 3X10 TYPE2 NON-SLIT			

Ref. No.	Part No.	Description			Remark
		< ANTENNA >			
ANT1	1-501-907-71	ANTENNA, FM WIRE			
		< BAND-PASS FILTER >			
BPF1	1-239-813-21	FILTER, BAND PASS			
		< CAPACITOR >			
C1	1-126-964-11	ELECT	10uF	20%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-104-665-11	ELECT	100uF	20%	10V
C4	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C8	1-126-964-11	ELECT	10uF	20%	50V
C9	1-126-963-11	ELECT	4.7uF	20%	50V
C10	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C13	1-128-551-11	ELECT	22uF	20%	25V
C14	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C15	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C16	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C17	1-126-963-11	ELECT	4.7uF	20%	50V
C18	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C19	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C20	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C22	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V
C25	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C27	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C28	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C29	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C30	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C31	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C33	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C46	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C51	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C52	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C53	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C54	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C57	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C58	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C59	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C60	1-128-551-11	ELECT	22uF	20%	25V
C61	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C62	1-104-665-11	ELECT	100uF	20%	25V
C63	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C64	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C65	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C66	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C68	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C69	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C70	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C80	1-216-864-11	METAL CHIP	0	5%	1/16W
C81	1-216-864-11	METAL CHIP	0	5%	1/16W
C101	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C102	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C103	1-126-963-11	ELECT	4.7uF	20%	50V
C104	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C105	1-126-963-11	ELECT	4.7uF	20%	50V
C106	1-216-864-11	METAL CHIP	0	5%	1/16W
C201	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C202	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C203	1-126-963-11	ELECT	4.7uF	20%	50V
C204	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C205	1-126-963-11	ELECT	4.7uF	20%	50V
C206	1-216-864-11	METAL CHIP	0	5%	1/16W
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C303	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C304	1-126-934-11	ELECT	220uF	20%	10V
C305	1-216-864-11	METAL CHIP	0	5%	1/16W
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-126-934-11	ELECT	220uF	20%	10V
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-126-934-11	ELECT	220uF	20%	10V
C310	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C311	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C312	1-126-934-11	ELECT	220uF	20%	10V
C313	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C314	1-124-261-00	ELECT	10uF	20%	50V
C317	1-126-963-11	ELECT	4.7uF	20%	50V
C318	1-126-963-11	ELECT	4.7uF	20%	50V
C319	1-126-935-11	ELECT	470uF	20%	10V
C321	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C324	1-124-584-00	ELECT	100uF	20%	10V
C325	1-104-665-11	ELECT	100uF	20%	10V
C326	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C327	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C328	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C329	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C331	1-126-947-11	ELECT	47uF	20%	10V
C332	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C333	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C334	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
		< CONNECTOR >			
* CN301	1-784-785-11	CONNECTOR, FFC 24P			
CN302	1-784-775-11	CONNECTOR, FFC 14P			
* CN303	1-566-779-11	PIN, CONNECTOR (PC BOARD) 4P			
* CN304	1-785-654-21	PIN, CONNECTOR (PC BOARD) 2P			
		< TRIMMER >			
CT1	1-141-601-11	CAP, ADJ			
CT2	1-141-601-11	CAP, ADJ			
CT3	1-141-601-11	CAP, ADJ			
		< DIODE >			
D2	6-500-169-01	DIODE KV1610STL1-2			
D3	8-719-083-90	DIODE HVU363ATRU			
D4	8-719-083-90	DIODE HVU363ATRU			
D5	8-719-083-90	DIODE HVU363ATRU			
D52	8-719-911-19	DIODE 1SS119-25TD			
D53	8-719-911-19	DIODE 1SS119-25TD			
D54	8-719-911-19	DIODE 1SS119-25TD			
D301	8-719-941-86	DIODE DAN202UT106			
D302	8-719-941-86	DIODE DAN202UT106			
D303	8-719-941-86	DIODE DAN202UT106			
D304	8-719-911-19	DIODE 1SS119-25TD			
D305	8-719-911-19	DIODE 1SS119-25TD			
D306	8-719-911-19	DIODE 1SS119-25TD			
D307	8-719-911-19	DIODE 1SS119-25TD			
D310	8-719-069-55	DIODE UDZSTE-175.6B			
D311	8-719-069-55	DIODE UDZSTE-175.6B			
		< IC >			
IC1	8-752-073-35	IC CXA1960Q			
IC51	6-701-908-01	IC LC72122V-TLM			
IC301	8-759-539-45	IC M62429P			
IC302	8-759-909-71	IC BA4558F-E2			
IC303	8-759-530-28	IC TC4066BFT (EL, N)			
		< RESISTOR >			
JC3	1-216-864-11	METAL CHIP	0	5%	1/16W
JC4	1-216-864-11	METAL CHIP	0	5%	1/16W
JC5	1-216-295-00	SHORT	0		
		< COIL/SHORT >			
L1	1-419-540-21	COIL, OSCILLATION (AM)			
L2	1-419-847-11	COIL, AIR-CORE			
L3	1-419-854-11	COIL, AIR-CORE			
L4	1-414-685-11	INDUCTOR	33nH		
L5	1-428-938-11	COIL, FERRITE-ROD ANTENNA (MW)			
L7	1-216-295-00	SHORT	0		
L8	1-216-295-00	SHORT	0		
L52	1-412-939-11	INDUCTOR	1uH		
L53	1-412-963-11	INDUCTOR	100uH		
L54	1-216-295-00	SHORT	0		
L301	1-412-537-31	INDUCTOR	100uH		
L302	1-414-392-21	INDUCTOR	1uH		
		< TRANSISTOR >			
Q1	8-729-026-52	TRANSISTOR	2SA1576A-T106-R		
Q2	8-729-423-52	TRANSISTOR	2SC3931-C-TX		
Q51	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q52	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q53	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q101	8-729-212-02	TRANSISTOR	KTC3203Y-AT		
Q201	8-729-212-02	TRANSISTOR	KTC3203Y-AT		
Q301	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q302	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q305	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q306	8-729-026-52	TRANSISTOR	2SA1576A-T106-R		
Q307	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q308	8-729-801-84	TRANSISTOR	2SB1013-TP-34		
Q309	8-729-905-35	TRANSISTOR	2SC4081T106R		

MAIN TRANSFORMER

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R1	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R2	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R3	1-216-833-11	METAL CHIP	10K	5%	1/16W
R4	1-216-801-11	METAL CHIP	22	5%	1/16W
R5	1-216-864-11	METAL CHIP	0	5%	1/16W
R6	1-216-821-11	METAL CHIP	1K	5%	1/16W
R7	1-216-817-11	METAL CHIP	470	5%	1/16W
R8	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R9	1-216-864-11	METAL CHIP	0	5%	1/16W
R10	1-216-833-11	METAL CHIP	10K	5%	1/16W
R11	1-216-857-11	METAL CHIP	1M	5%	1/16W
R12	1-216-845-11	METAL CHIP	100K	5%	1/16W
R13	1-216-845-11	METAL CHIP	100K	5%	1/16W
R15	1-216-845-11	METAL CHIP	100K	5%	1/16W
R16	1-216-837-11	METAL CHIP	22K	5%	1/16W
R18	1-216-817-11	METAL CHIP	470	5%	1/16W
R19	1-216-809-11	METAL CHIP	100	5%	1/16W
R20	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R21	1-216-841-11	METAL CHIP	47K	5%	1/16W
R51	1-216-821-11	METAL CHIP	1K	5%	1/16W
R52	1-216-821-11	METAL CHIP	1K	5%	1/16W
R53	1-216-821-11	METAL CHIP	1K	5%	1/16W
R54	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R55	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R56	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R57	1-216-797-11	METAL CHIP	10	5%	1/16W
R58	1-216-833-11	METAL CHIP	10K	5%	1/16W
R59	1-216-833-11	METAL CHIP	10K	5%	1/16W
R61	1-216-845-11	METAL CHIP	100K	5%	1/16W
R62	1-216-833-11	METAL CHIP	10K	5%	1/16W
R63	1-216-809-11	METAL CHIP	100	5%	1/16W
R103	1-216-841-11	METAL CHIP	47K	5%	1/16W
R104	1-216-837-11	METAL CHIP	22K	5%	1/16W
R105	1-216-837-11	METAL CHIP	22K	5%	1/16W
R106	1-216-864-11	METAL CHIP	0	5%	1/16W
R107	1-216-853-11	METAL CHIP	470K	5%	1/16W
R108	1-216-837-11	METAL CHIP	22K	5%	1/16W
R109	1-216-821-11	METAL CHIP	1K	5%	1/16W
R203	1-216-841-11	METAL CHIP	47K	5%	1/16W
R204	1-216-837-11	METAL CHIP	22K	5%	1/16W
R205	1-216-837-11	METAL CHIP	22K	5%	1/16W
R206	1-216-864-11	METAL CHIP	0	5%	1/16W
R207	1-216-853-11	METAL CHIP	470K	5%	1/16W
R208	1-216-837-11	METAL CHIP	22K	5%	1/16W
R209	1-216-821-11	METAL CHIP	1K	5%	1/16W
R302	1-216-841-11	METAL CHIP	47K	5%	1/16W
R304	1-216-809-11	METAL CHIP	100	5%	1/16W
R308	1-216-821-11	METAL CHIP	1K	5%	1/16W
R309	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R310	1-216-805-11	METAL CHIP	47	5%	1/16W
R311	1-216-837-11	METAL CHIP	22K	5%	1/16W
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R313	1-216-841-11	METAL CHIP	47K	5%	1/16W
R314	1-216-821-11	METAL CHIP	1K	5%	1/16W
R315	1-216-821-11	METAL CHIP	1K	5%	1/16W
R316	1-216-837-11	METAL CHIP	22K	5%	1/16W
R317	1-216-841-11	METAL CHIP	47K	5%	1/16W
R318	1-216-837-11	METAL CHIP	22K	5%	1/16W
R319	1-216-864-11	METAL CHIP	0	5%	1/16W
R320	1-216-837-11	METAL CHIP	22K	5%	1/16W
R321	1-216-821-11	METAL CHIP	1K	5%	1/16W
R322	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R323	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R324	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R325	1-216-841-11	METAL CHIP	47K	5%	1/16W
R326	1-216-817-11	METAL CHIP	470	5%	1/16W
R327	1-216-833-11	METAL CHIP	10K	5%	1/16W
R328	1-216-833-11	METAL CHIP	10K	5%	1/16W
R329	1-216-809-11	METAL CHIP	100	5%	1/16W
R330	1-216-841-11	METAL CHIP	47K	5%	1/16W
R331	1-216-841-11	METAL CHIP	47K	5%	1/16W
R332	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R333	1-216-845-11	METAL CHIP	100K	5%	1/16W
R335	1-216-841-11	METAL CHIP	47K	5%	1/16W
R336	1-216-841-11	METAL CHIP	47K	5%	1/16W
R337	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R338	1-216-837-11	METAL CHIP	22K	5%	1/16W
R339	1-216-837-11	METAL CHIP	22K	5%	1/16W
R378	1-216-809-11	METAL CHIP	100	5%	1/16W
R380	1-216-809-11	METAL CHIP	100	5%	1/16W
R386	1-216-809-11	METAL CHIP	100	5%	1/16W
R387	1-216-809-11	METAL CHIP	100	5%	1/16W
		< VARIABLE RESISTOR >			
RV1	1-238-599-11	RES, ADJ, CARBON 4.7K			
RV2	1-241-767-21	RES, ADJ, CARBON 100K			
		< VIBRATOR >			
X51	1-567-769-11	VIBRATOR, CRYSTAL (75kHz)			
**********					
*	1-684-065-11	TRANSFORMER BOARD			
		**********			
	1-533-233-11	HOLDER, FUSE			
⚠	1-757-636-31	CORD, POWER			
		< CAPACITOR >			
C901	1-107-909-11	ELECT	47uF	20%	35V
C902	1-126-947-11	ELECT	47uF	20%	35V
C903	1-126-947-11	ELECT	47uF	20%	35V
C904	1-107-909-11	ELECT	47uF	20%	35V
C905	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C906	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C907	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C908	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C909	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C910	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
* CN901	1-785-672-11	PIN, CONNECTOR (PC BOARD) 6P			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TRANSFORMER | VOLUME

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D901	8-719-924-13	DIODE MTZJ-T-77-22B			
D902	8-719-911-19	DIODE 1SS119-25TD			
D903	8-719-911-19	DIODE 1SS119-25TD			
D904	8-719-911-19	DIODE 1SS119-25TD			
D905	8-719-911-19	DIODE 1SS119-25TD			
D906	8-719-911-19	DIODE 1SS119-25TD			
D907	8-719-979-32	DIODE RL202-M11			
D908	8-719-979-32	DIODE RL202-M11			
D909	8-719-979-32	DIODE RL202-M11			
D910	8-719-979-32	DIODE RL202-M11			
		< FUSE >			
⚠F901	1-533-452-11	FUSE, GLASS TUBE (DIA. 5) (4A/125V)			
		< RESISTOR >			
R901	1-216-833-11	METAL CHIP	10K	5%	1/16W
R902	1-216-849-11	METAL CHIP	220K	5%	1/16W
R903	1-216-845-11	METAL CHIP	100K	5%	1/16W
		< TRANSFORMER >			
⚠T901	1-435-595-11	TRANSFORMER, POWER			
**********					
*	1-684-064-11	VOLUME BOARD			
		**********			
	3-227-332-11	KNOB (VOL)			
	3-238-599-01	BUTTON (CLOCK)			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
		< CAPACITOR >			
C372	1-124-259-11	ELECT	4.7uF	20%	16V
C373	1-124-259-11	ELECT	4.7uF	20%	16V
C374	1-124-261-00	ELECT	10uF	20%	50V
C380	1-124-259-11	ELECT	4.7uF	20%	16V
C381	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
* CN354	1-785-671-11	PIN, CONNECTOR (PC BOARD) 5P			
		< TRANSISTOR >			
Q359	8-729-905-35	TRANSISTOR	2SC4081T106R		
		< RESISTOR >			
R381	1-216-809-11	METAL CHIP	100	5%	1/16W
R382	1-216-821-11	METAL CHIP	1K	5%	1/16W
R383	1-216-845-11	METAL CHIP	100K	5%	1/16W
R384	1-216-821-11	METAL CHIP	1K	5%	1/16W
R653	1-216-853-11	METAL CHIP	470K	5%	1/16W
R654	1-216-849-11	METAL CHIP	220K	5%	1/16W
		< VARIABLE RESISTOR >			
RV351	1-223-495-11	RES, VAR, CARBON 20K (MEGA BASS)			

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S651	1-786-050-21	SWITCH, KEY BOARD (CLOCK)	
S652	1-786-050-21	SWITCH, KEY BOARD (SUMMER T. D.S.T)	
**********			
		MISCELLANEOUS	
		**********	
58	1-823-839-11	CABLE, FLEXIBLE FLAT (24 CORE)	
104	1-452-899-11	MAGNET	
116	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)	
117	1-824-018-11	CABLE, FLEXIBLE FLAT (14 CORE)	
⚠158	1-757-636-31	CORD, POWER	
501	X-2162-707-1	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M701)	
⚠505	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)	
⚠F901	1-533-452-11	FUSE, GLASS TUBE (DIA. 5) (4A/125V)	
M702	X-2162-712-1	GEAR ASSY (R) (RP), MOTOR (SLED)	
S301	1-771-429-11	SWITCH, PUSH (1 KEY) (CD LID OPEN/CLOSE DETECT)	
SP301	1-825-077-11	SPEAKER (8.2cm) (WOOFER)	
⚠T901	1-435-595-11	TRANSFORMER, POWER	
**********			
		ACCESSORIES	
		**********	
	3-238-974-21	MANUAL, INSTRUCTION (ENGLISH)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.03	New
1.1	2002.07	Correction of OPTICAL BLOCK (SPM-02027)